

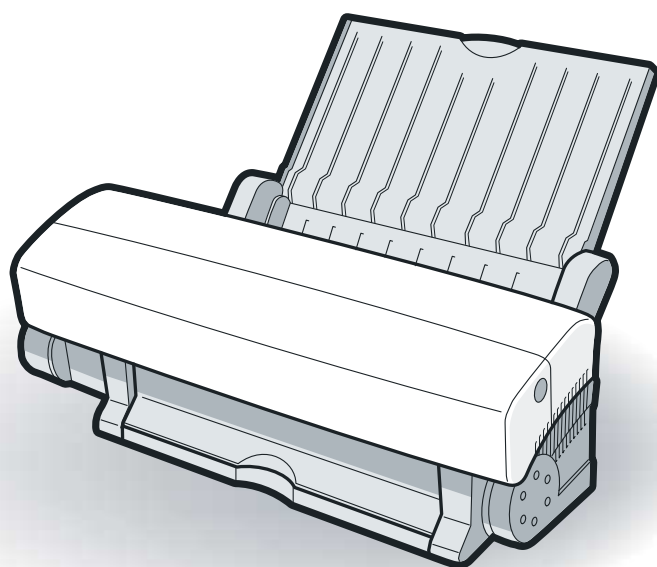
DP-7000

OKI

Thermal A3+ Colour Desktop Printer

DP-7000

User's Guide



Preface

Every effort has been made to ensure that the information in this document is complete, accurate, and up-to-date. Oki assumes no responsibility for the results of errors beyond its control. Oki also cannot guarantee that changes in software and equipment made by other manufacturers and referred to in this guide will not affect the applicability of the information in it. Mention of software products manufactured by other companies does not necessarily constitute endorsement by Oki.

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EEC compatibility



This product complies with the requirements of the Council Directives 89/336/EEC and 73/23/EEC amended by 93/68/EEC (EMC) and 73/23/EEC (LVD), as amended where applicable, on the approximation of the laws of the members states relating to Electromagnetic Compatibility and Low voltage.

Energy Star



As an ENERGY STAR® Partner, Oki has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

Universal Serial Bus



This printer is fitted with an industry Standard Universal Serial Bus (USB) data interface.

Safety instructions

This printer has been carefully designed to give years of safe, reliable performance. As with all electrical equipment, however, there are a few basic precautions that should be taken to avoid personal injury or damaging the printer:

- Read this setup guide carefully and save it for future reference.
- Read and follow all warning and instruction labels on the printer itself.
- Disconnect the printer before cleaning. Use only a damp cloth. Do not use liquid or aerosol cleaners to clean the printer.
- Place the printer on a firm, solid surface. If the printer is placed on something unsteady, it may fall and become damaged or injure someone. If the printer is placed on a soft surface, such as a rug, sofa, or bed, the vents may become blocked causing the printer to overheat.
- Do not put the printer on or near a heat source, such as a radiator or heat register. Keep it out of direct sunlight. Allow enough room around the printer for adequate ventilation and easy access.
- Do not use the printer near water, or spill liquid of any kind into it.
- Make sure that the power source matches the rating listed on the back of the printer. If you are not sure, check with your dealer or with your local power company.
- This printer has an earthed plug as a safety feature and will only connect to an earthed outlet. If this plug cannot be connected to a power outlet, then it is possible that the power outlet is of the older, non-earthed type. Contact an electrician to have the power outlet replaced. Do not use an adapter to defeat the earthing.
- To avoid damaging the power cable, do not put anything on it or place it where it will be walked on. If the cable becomes damaged or frayed, replace it immediately.
- If an extension cable or power strip is being used with the printer, make sure that the total of the amperage rating required by all the equipment is less than the rating of the extension cable or power strip. The total ratings of all equipment

plugged into the outlet should not exceed 13 amperes.

- The power outlet into which the printer is connected must remain accessible at all times.
- Opening any cover may expose hot surfaces. These are clearly labelled. Do NOT touch them.
- Do not insert anything into the ventilation slots on the printer; you could get a shock or cause a fire.
- Aside from the routine maintenance described in the user's guide, do not try to service the printer yourself. Opening a cover may expose you to shocks or other hazards.
- Do not make any adjustments other than those outlined in the user's guide as damage may be caused to the printer.

If anything happens that indicates that the printer is not working properly or has been damaged, disconnect the printer from the power source and contact your dealer. These are some of the things to look for:

- The power cable or plug is frayed or damaged.
- Liquid has been spilled into the printer, or it has been exposed to water.
- The printer has been dropped, or the cabinet is damaged.
- The printer does not function normally when following the operating instructions.

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Chapter 1 - Introduction

Introduction

Thank you for your purchase of the OKI DP-7000 Colour A3+ desktop printer. This printer represents the most recent advances in printing quality and technology. Whether you need a printer for your Macintosh or the new iMac computer, this printer is the solution you have been looking for.

Features

The following is a summarised list of the many standard features offered by your new printer:

- Variable-dot 2400 dots-per-inch printing resolution.
- Nine-colour ink capacity, the most challenging printing tasks are easily accomplished.
- Fully compatible with all of the standard inks and foil colours.
- Fade-proof, smear-proof, and waterproof printing.
- Reversible finish cartridge enabling the cartridge to have a more extended life.
- USB Serial Interface allows a direct interface to your Macintosh without an expensive converter cable.

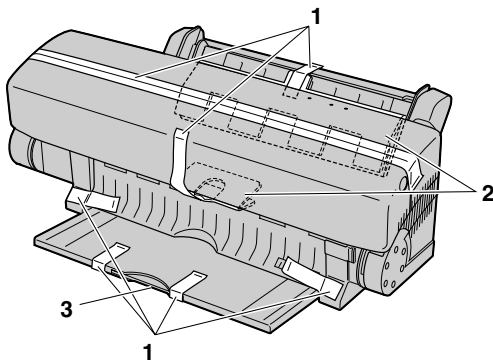
Preparing your printer

Removing package contents

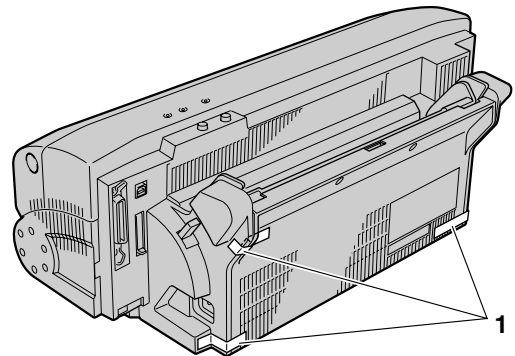
1. Lift the printer out of its container box. Remove the packing materials from inside and outside the printer.

Caution

The printer is shipped with tape, spacers, and other packing materials to prevent delicate parts from being damaged while in transit. Remove these packing materials before using the printer. Damage to the printer or malfunction may occur if the printer is used while these packing materials are still present.

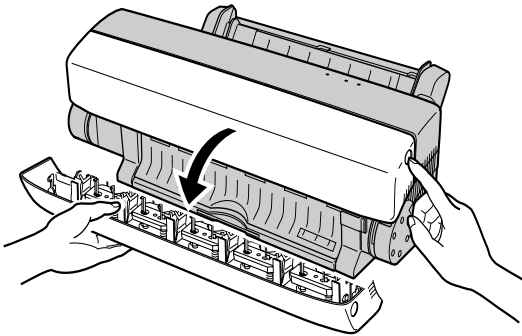


2. Remove the seven pieces of tape (1) and two pieces of corrugated cardboard (2) at the front of the printer. Remove the pieces of tape in the output paper tray by taking hold of the handle and pulling the output paper tray out.
3. Remove the three pieces of tape (1) at the back of the printer.



Opening front cover

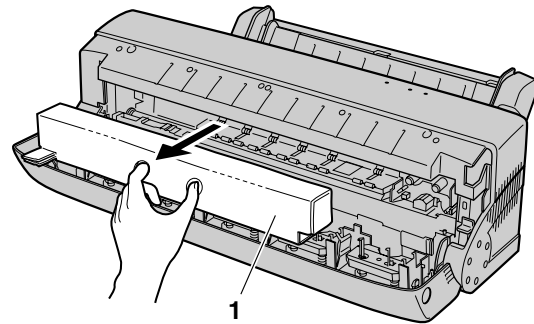
1. Open the front cover to remove the inside packing material.



2. To open the front cover (1), push the front cover release button (2) to release the internal lock. Gently lower the front cover with your hand.
3. Remove the piece of carriage packing material (1) from inside the printer.

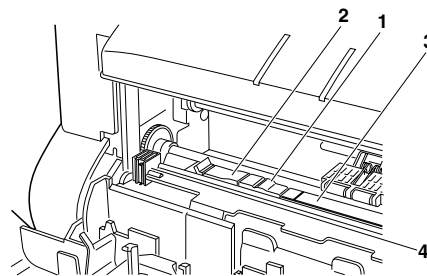
Caution:

Operating the printer without first removing the packing materials may damage the printer.



Caution:

Do not remove the white pad (1) or the orange pad (2) at the left end of the platen (3). They are there to clean the print head. Removing them can cause the printer to malfunction. The cleaning pad can be replaced when it gets dirty. Do not touch the cover open sensor (4), which is located on the left side of the printer.



Closing front cover

Close the front cover after removing the carriage packing material.

Caution:

When closing the front cover, never slam it shut. The ink cartridges can become dislodged and damage to the printer may result.

Locating printer

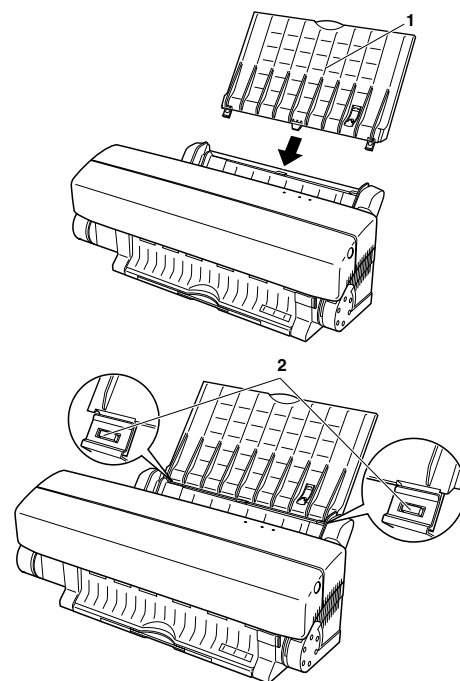
After removing the packing material and reading the safety precautions (see page iii), choose a location which offers a stable, firm surface for your printer. Try to avoid places which are subject to extremes of heat, cold, sunlight and damp. Also, choose a location from which you can run the power cables safely to suitable nearby connection points. Ensure that there is sufficient space around the printer to allow the output paper tray and the paper support to be pulled out when necessary.

Caution:

Do not allow the output paper tray hang over the edge of a table or to protrude from the location of the printer in any way.

Fitting Paper Support

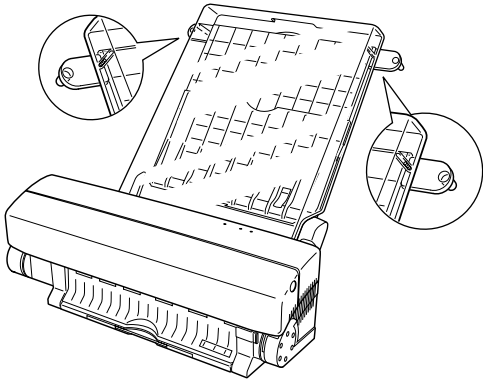
Fit the paper support (1) so that the paper inserted in the printer does not bend backwards. When fitting the paper support (1), please make sure that the convex part of the paper support fits into the hollow section of the printer as shown in the drawing.



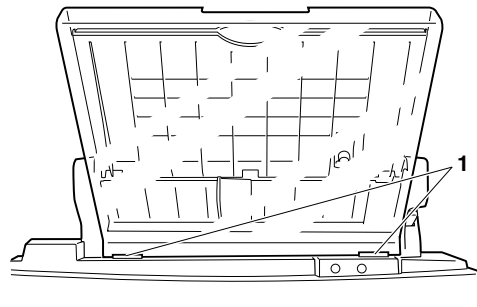
Fitting Dust Cover

The dust cover is used when the printer is not used or is printing. The dust cover prevents the paper inserted in the printer, as well as the inside of the printer, from getting dusty. Dust can cause not only poor printing quality but also various other problems.

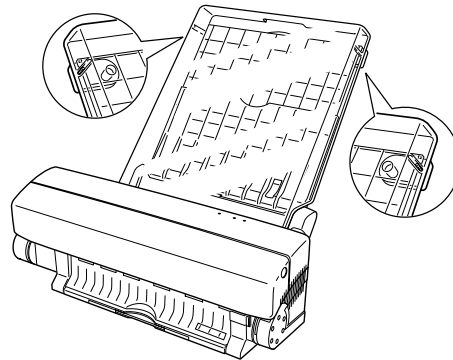
1. Fit the dust cover on the printer with the two wings pulled out.



At this time, hook the dust cover onto the convex part of the printer.

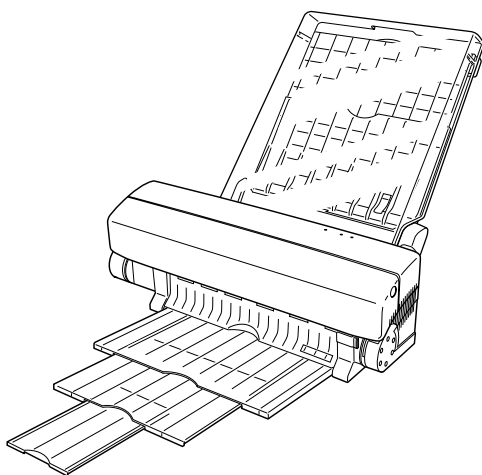


2. Fit the dust cover on the paper support by pushing the two wings of the dust cover in and insert the paper support between the dust cover and the wings.



Using Output Paper Tray

To use the output paper tray when printing, take hold of the handle and pull the tray gently all the way out. When you have finished printing, push it gently back in again using the handle.



Transporting the printer

It is important to retain the packaging material to protect the printer during transit if the printer has to be moved.

To repack the printer for transportation:

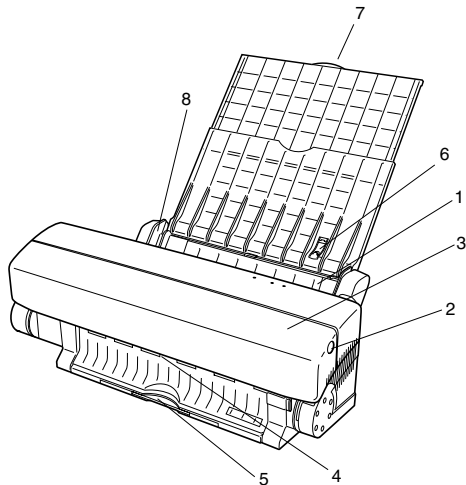
1. Remove all ink cartridges.
2. Replace packing inserts that were removed when the machine was first unpacked (see 'Removing Package Contents' earlier in this guide).
3. Repack in original box with original packing materials.

Printer functions

The following paragraphs explain the name and function of each part of the printer.

Front view of printer

1. Sheet feeder - Paper can fed into the printer either automatically or manually. Place a stack of not more than 100 sheets (plain laser paper) for automatic feed. In manual feed, insert a single sheet at a time.



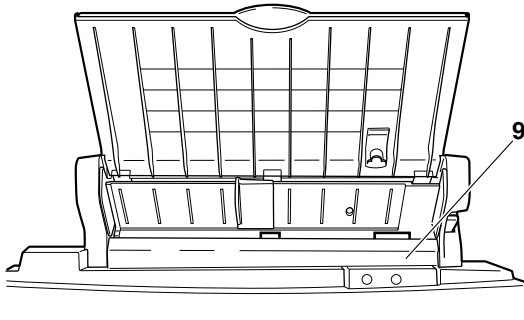
2. Front cover release button - Pressing this button opens the front cover. The front cover will need to be opened when there is a paper jam or when changing ink cartridges. Open the front cover gently, using both hands.
3. Front cover - The front cover protects the internal mechanisms of the printer. The cover is always closed during printing.
4. Paper output slot - Paper exits the printer through this slot.
5. Output paper tray - The output paper tray receives printed paper.

Caution:

Never reach inside the printer while it is operating. Injury may result. Do not open the front cover while the printer is running.

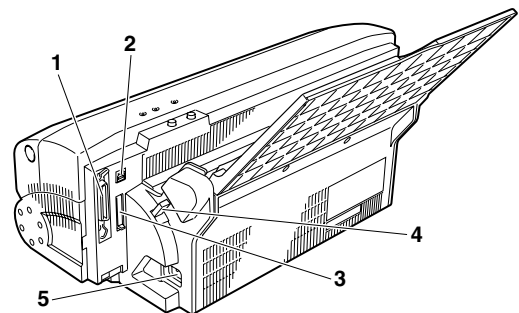
6. Paper stopper - This stopper prevents the paper from rising when the small size media is set vertically for printing.

7. Paper support - The paper support holds the loaded paper upright. To extend the paper support, pull up on the top edge.
8. Paper feed guide - This guide feeds the paper into the printer. Set the adjustable guide on the left to match the paper size being used.
9. Paper transport rollers - The paper transport rollers for feeding sheets of paper loaded on the sheet feeder (at 5 places which are enclosed in a wavy line box).



Rear view of printer

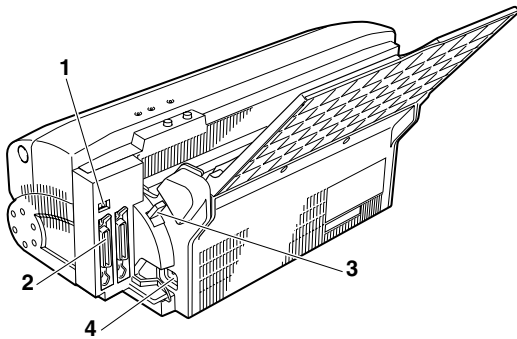
1. Parallel interface connector - The printer cable is connected to the parallel interface connector.



2. USB Interface Connector - The USB Interface Connector connects to the USB cable.
3. Accessory connector - This connector is used to connect Macintosh interface module to the printer. Make sure you remove the rectangular plastic connector cover before connecting either of these options.
4. Paper feed switch - This switch sets the paper feeding method to automatic feed mode or manual feed mode.
5. Power socket - The power cable connects to the power socket.

Rear view of printer with SCSI interface module

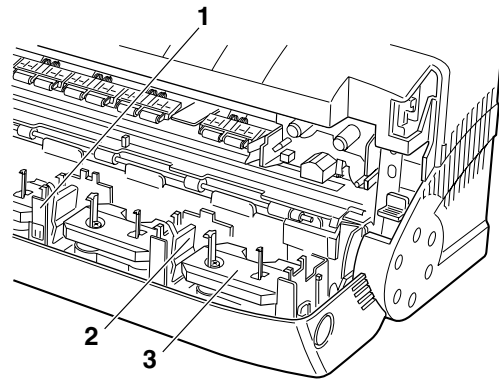
1. DIP switches - The DIP switches are used to set the SCSI device number for the printer.



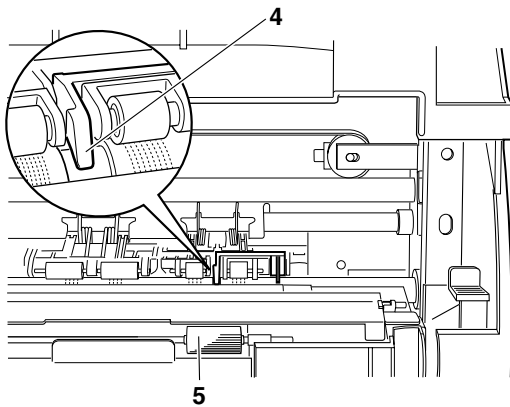
2. SCSI connector - The SCSI connectors are used for connecting to the Macintosh computer and/or other SCSI devices.
3. Paper feed switch - This switch sets the paper feeding method to automatic feed mode or manual feed mode.
4. Power socket - The power cable connects to the power socket.

Inside the printer

1. Marking sticker (Black and Silver sticker)
The marking sticker confirms that the carriage is in the standard position. Try not to smear the sticker. If the sticker gets dirty, please clean it with a dry cotton swab gently so as not to peel it off.
2. Latch (the blue part)
This latch fixes the ink cartridge into the ink cartridge holder.
3. Ink cartridge holder plate
There are five holder plates which hold two ink cartridges. A maximum of nine ink cartridges is allowed.

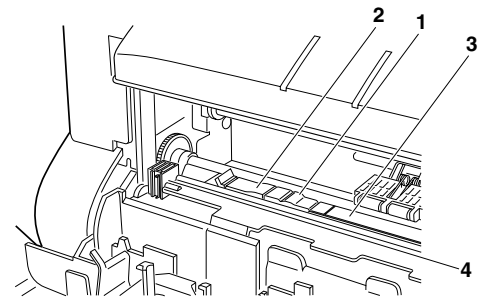


4. PE lever
This lever detects whether or not there is any paper left.
5. Paper eject roller
The paper eject roller discharge paper sheets.



6. Feed roller (metal roller)
The feed roller feeds loaded sheets.
7. Cleaning Pad (Orange)
This pad is used for cleaning the print head. Do not remove this pad.
8. Cleaning Pad (White)
This pad is used for cleaning the print head. Do not remove this pad.

9. Platen
This is a rubber plate which is pressed by the print head while printing. Dust on the platen may result in poor printing quality.
10. Cover open sensor
The cover open sensor detects whether or not the front cover is open.

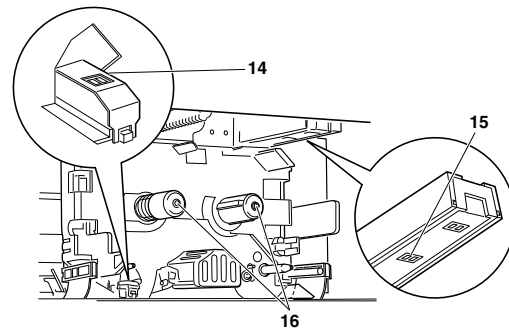
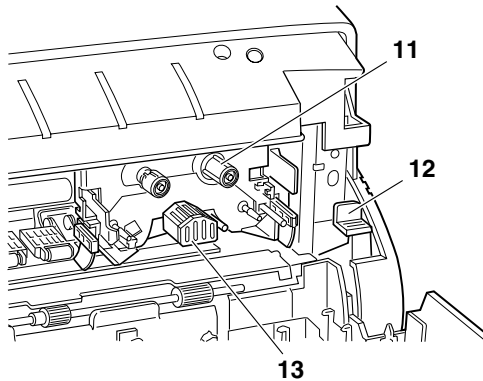


11. Carriage
The carriage automatically selects and picks up the necessary ink cartridges from any ink cartridge holders. The carriage is usually positioned more to the left than is shown in the drawing.
12. Release lever (Blue lever)
The release lever is used to clear paper jams. Press the lever down to remove the jammed

paper. When the front cover is closed, the lever will automatically go back to its original position.

13. Print head

The print head is on the carriage and prints the characters. Please take care not to touch the print head except when cleaning.



14. RE sensor (at the Black part)

The RE sensor detects used-up ink cartridges.

15. HP sensor (two at the Black parts)

The HP sensor detects the type and standard position of an ink cartridge.

16. Bobbin axis

Winds the ink cartridge around.

Caution:

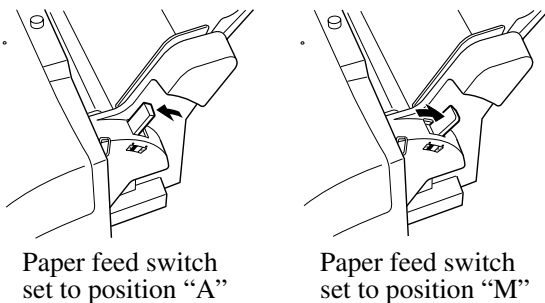
Mishandling the print head or carriage can cause damage to the printer. Also, never load an ink cartridge directly into the carriage. Malfunction or damage to the printer may result.

Paper feed switch

Caution:

Do not move the paper feed switch while paper is being fed, otherwise the paper may feed in incorrectly. Move the paper feed switch until it clicks into position "M" or "A". Paper will not feed properly unless the switch is correctly set to either "M" or "A".

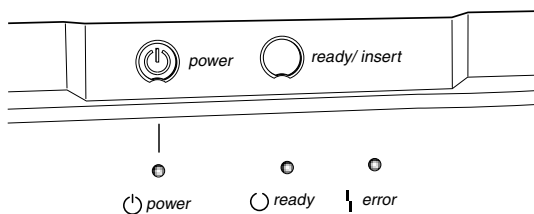
For continuous printing using automatic feeding, set the paper feed switch to position “A”. To manually feed paper, set the paper feed switch to position “M”.



Control panel

The top area of the printer has two buttons and three LED indicator lights. This area of the printer is called the control panel.

1. Power button - Use the **power** button to turn the printer on and off.



2. Ready / Insert button - Use the **ready / insert** button to load and eject paper. When the paper feed switch is set in position “M”, this button is used to feed or eject paper. The button is not functional when the paper feed switch is in position “A”. Pressing the **ready / insert** button for three seconds or more causes the printer to print a sample page.
3. Error light - This light blinks when a printer error has occurred.
4. Ready light - This light illuminates when the printer is ready to print. The light blinks slowly while printing and goes out when printing has paused or stopped.
5. Power light - Indicates whether the printer is on or off. The light illuminates when the printer is on. When the light is off, the internal functions of the printer still retain power. To completely shut off power to the printer, unplug the power cable from the socket.

For a full description of the indicator lights refer to ‘Indicator Lights Summary’

Indicator lights summary

Light	Light status	Printer status
power	On	Ready for operation
	Fast blinking	Printing sample page
	Off	Printer not ready
ready	On	Select mode (ready to print)
	Fast blinking	Deselect mode (not ready)
	Slow blinking	Receiving or processing data
error	Fast blinking	Printer error detected
	Off	Normal

Error Status	Light Status			Description
	power	ready	error	
Hardware error	Blink	Blink	Blink	An electrical circuit error has occurred.
Nonvolatile error				Contents of printer memory have been lost.

Error Status	Light Status			Description
	power	ready	error	
Out of paper	On	Off	Blink	Printer is out of paper or de-selected during paper feed
Paper jam				Paper jam detected.
Ribbon end				Ink cartridge ribbon needs replacement.
Cartridge change error				Error detected during ink cartridge change, or eight cartridges installed plus one on carriage.
Mechanism error				Printer mechanical error.
Front cover open				Front cover left open.
Necessary ribbon not installed.				Necessary ink cartidge not installed or used up. Forced printing still possible.

Chapter 2 - Initial Setup

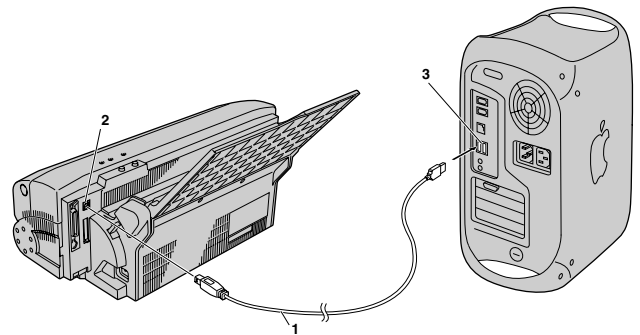
Computer connection

Caution:

Power to the printer and computer must be turned off and the power cables unplugged before connecting or disconnecting the printer cable to prevent any damage or malfunction from occurring.

Macintosh USB connection

1. Please make sure that the power is turned off. If the computer has started, please shut down the computer again and turn the power off.
2. Connect the printer (2) to the computer (3) using the USB cable (1).



Caution:

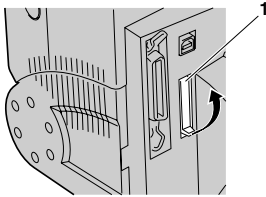
Using extension cables can cause printing problems.

Macintosh SCSI connection

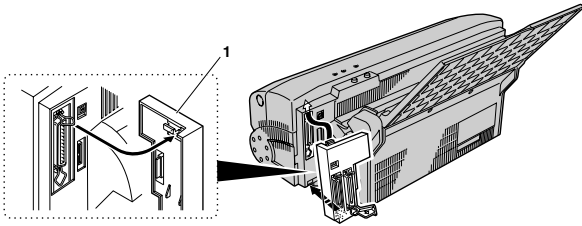
When using Macintosh SCSI connection, the SCSI adapter must be fitted.

Fitting the SCSI adapter

1. Remove the cover (1) from the SCSI adapter socket.



2. Fit the adapter by fitting the connector of the SCSI adapter (1) into the SCSI connector socket.



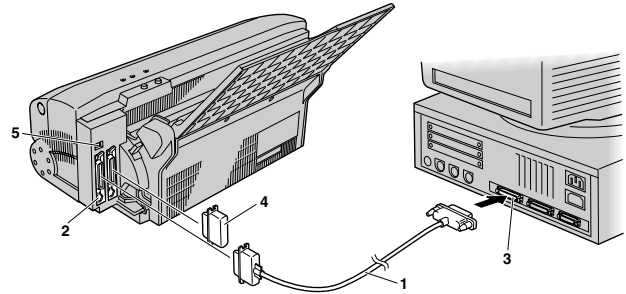
Caution:

Please connect the SCSI cable and the terminator after installing the SCSI adapter.

Please install the SCSI adapter before the power cable is plugged in to prevent any damage or malfunction from occurring.

Connecting the printer to a computer

1. Please make sure that the power is turned off. If the computer has started, please shut down the computer again and turn off the power.
2. Connect the printer (2) to the computer (3) using the SCSI cable (1), then fasten them tightly with screws and adjustment catches. If the printer is at the end position of a SCSI chain, you should fit a SCSI terminator (4).



Caution:

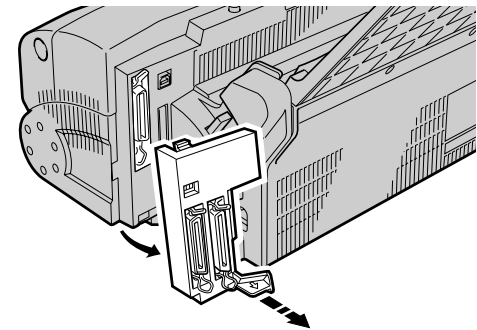
Power to the computer, the printer and all peripheral devices connected using SCSI must be turned off (the power cord plug should be unplugged from a wall socket). Before connecting or disconnecting the SCSI cable and the terminator to prevent any damage or malfunction from occurring.

A high impedance cable is recommended for use as the SCSI cable. With other cables, unstable working can be expected. An active terminator is recommended as the terminator.

Caution SCSI ID:

The initial SCSI ID of the SCSI adapter has been set as 6. To change the ID, set the ID by using the dip switch (5). Regarding details, refer to [Dip Switch Setting (Macintosh SCSI Connection)] in [Chapter 7 Specification & Setting]. If any SCSI peripheral devices other than this printer are connected to the computer, and if the SCSI ID of this printer and other peripheral devices are the same, it is possible that this printer and other SCSI peripheral devices will not work properly.

adapter by taking hold of the part shown by the arrows.

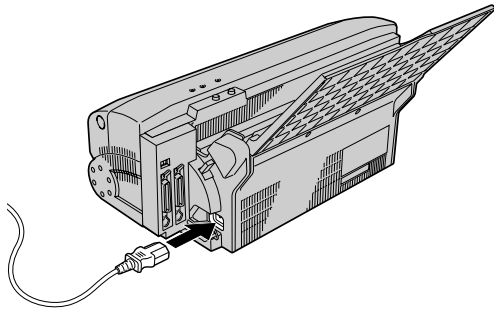


How to uninstall SCSI adapter

1. Turn off the computer, the printer and all peripheral devices connected using SCSI.
2. Unplug the power cord from the printer.
3. Disconnect the SCSI cable and the terminator from the SCSI adapter.
4. Uninstall SCSI adapter.
As shown in the drawing, pull out the SCSI

Connecting Power Cord

1. Plug the optional power cord completely into the power cord socket of the printer hard.
2. Next, plug the plug of the power cord into a power source. Three lamps on the control panel will light up. If the lamps do not light up, make sure that the power cable is connected properly. After the lamps have been lit up for a few seconds they will all go out.



Caution 1:

Ensure that the power cord is pushed home completely into the socket on the printer. If it is not, the printer will not function.

Caution 2:

Power to the printer is completely cut off only when the power cord is unplugged.

Caution 3:

Ensure that the printer is located in a position where the plug and power cord are easily accessible.

Caution 4:

When unplugging the power cord from the power source, pull on the plug, not on the cord.

Caution 5:

The printer should be connected to the power supply using a three-pin earthed plug, preferably the one supplied with the machine.

Ink cartridges

The following describes how to identify the different types of ink cartridge and how to install and remove the cartridges from the printer.

Identifying ink cartridge and paper types

The ink cartridge type is indicated on the surface of each cartridge.

Printing Mode	Ink cartridge	Part number	Matching paper type
Standard colour printing 600 dpi	Process Black	41644606	High Grade Paper
	Process Yellow	41644609	
	Process Magenta	41644608	
	Process Cyan	41644607	
Standard grayscale printing 1200 dpi	Process Black	41644606	Press Paper
VPhoto printing on VPhoto Film 2400 dpi	Process Black	41644606	VPhoto Film
	Process Yellow	41644609	
	Process Magenta	41644608	
	Process Cyan	41644607	

Printing Mode	Ink cartridge	Part number	Matching paper type
VPhoto printing on Press Paper 2400 dpi	Process Black	41644606	Press Paper
	Process Yellow	41644609	
	Process Magenta	41644608	
	Process Cyan	41644607	
	Finish II* ¹	41067607	
RGB printing	Red Spot	41644602	Press Paper High Grade Paper
	Green Spot	41644603	
	Blue Spot	41644604	
	Black Spot	41644605	
Spot Color Printing	Metallic Magenta	41067617	Press Paper High Grade Paper
	Metallic Cyan	41067618	
	Metallic Gold	41067615	
	Metallic Silver	41067616	
Foil Color Printing	Gold Foil	41067608	Press Paper High Grade Paper
	Silver Foil	41067609	
	Black Spot	41644605	
Transparency Printing	Process Black	41644606	Transfer Film Transparency Film
	Process Yellow	41644609	
	Process Magenta	41644608	
	Process Cyan	41644607	
	Opaque White	41644601	

**1 Option*

Caution 1

The manufacturer only recommends printing with the cartridge-paper combinations listed in Table 1.

Caution 2

Printing with an inappropriate ink cartridge-paper combination can damage the cartridge ribbon.

Caution 3

Printing outside the printable paper area can damage the cartridge ribbon. Always print within the printable area. See 'Printable Area' in Specifications and Settings.

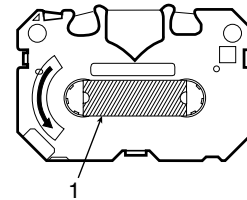
Installing ink cartridges

Install ink cartridges by following the steps below.

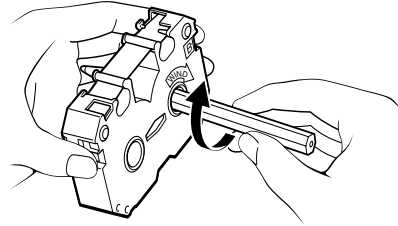
Caution

Dropping an ink cartridge could damage the cartridge and result in lower quality printing. If you drop a cartridge you should replace it with a new cartridge.

1. The cartridge has a stopper (1) to prevent slack in the ribbon (see below). Remove this stopper from the ink cartridge.

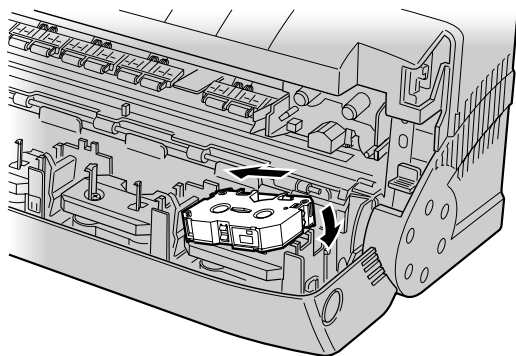


2. Insert a pencil from the side marked "B" and turn the pencil slowly to take up any slack in the ribbon (1).



3. Open the front cover by pushing the front cover release button to release the internal lock. Gently lower the front cover with your hand.
4. Hold the ink cartridge with your thumb and index finger so that the side with the letter "B" and the manufacturer's logo faces upward.

5. Insert the left end of the ink cartridge into the ink cartridge holder, while pushing the left side latch of the holder slightly to the left along with the cartridge.



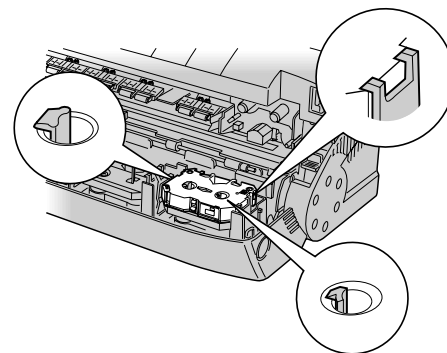
Note

The printer carriage located inside the printer can select and pick up the necessary ink cartridge from any holder. You can place up to 9 cartridges of the same colour in the holders to reduce the need to change ink cartridges.

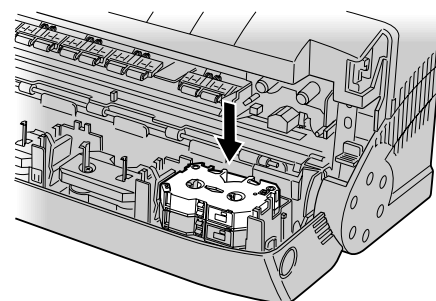
Caution

The ink cartridges may be put in any holder but **DO NOT** put ink cartridges directly into the carriage. Doing so may result in damage to the printer.

6. Push down the right side of the ink cartridge. Make sure that the ink cartridge is securely locked into the holder, and that there is no slack in the ribbon.



7. Place the second ink cartridge on top of the ink cartridge already installed. Gently push down the centre of the ink cartridges.



Caution 1:

Place the side marked “B” face up. Finish Cartridges are reversible.

Caution 2:

You must leave at least one cartridge holder empty for the printer to operate properly. Do not install more than 9 ink cartridges.

Caution 3:

Locate the first and second cartridge by facing their bar codes towards the printer and aligning them vertically. Not doing so may result in a cartridge change error.

Replacing or changing ink cartridges

When you want to change ink cartridges or replace a cartridge whose ribbon has been used up, remove the cartridges by the following steps.

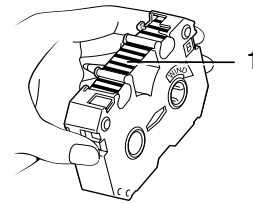
Note 1:

When an ink cartridge has been used up, black and silver stripes will be visible on the ribbon.

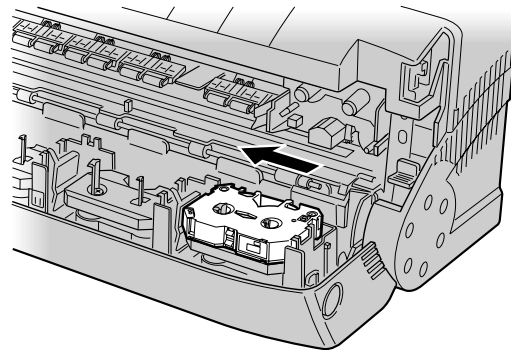
Note 2:

To reverse a Finish II ink cartridge, flip the cartridge

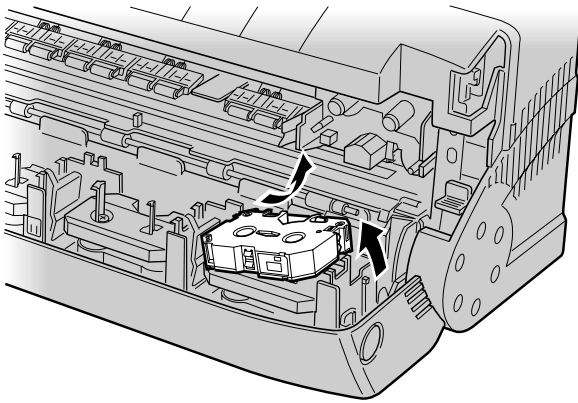
over and manually advance the ribbon until the black and silver stripes (1) disappear.



1. Open the front cover by pushing the front cover release button.
2. Removing an ink cartridge is similar to installing it. Hold the centre of the cartridge with your thumb and index finger. Push the left latch on the ink cartridge holder slightly to the left with the cartridge.



3. Lift up the right side of the cartridge, and then remove the entire ink cartridge. Insert a new ink cartridge by following the steps described earlier.



Loading paper

The following paragraphs explain how to load paper into the printer.

Paper types and available feeding modes

The table below shows information on switching between automatic and manual feeds, and on setting the paper feed switch (“A” or “M”).

Media type	Automatic feed mode	Manual feed mode
Press Paper-Matte and Art	A	M
High Grade Paper	A	M
VPhoto Film	A* ¹	M
Transparency Film/Transfer Film	x	M
Other media (thick paper, etc.)	A	M

**1 For VPhoto Film, use single sheet and manual feed.*

Caution:

Do not print on the following; thermal paper, paper exclusively for use in ink jet printers, glossy paper (paper whose surface has been specially treated), and envelopes. Doing so may damage the printer.

Note 1:

Loading too many sheets into the sheet feeder may cause paper jams or misfeeding.

Note 2:

Be aware that when using automatic feed mode, the last sheet will occasionally feed incorrectly depending on the paper type.

Notes and precautions about paper

The printer’s sheet feeder can feed paper to the printer automatically, which is the most convenient method of printing. The sheet feeder holds up to 100 sheets of plain paper at once.

Thick paper and other kinds of special printing media should be used in manual feed mode. The approximate thicknesses of paper that can be used in manual feed mode or automatic feed mode are as follows:

Feed Mode	Min.	Max.
Automatic	0.07mm (0.003")	0.10mm (0.004")
Manual	0.07mm (0.003")	0.23mm (0.01")

Caution:

Never use paper in the sheet feeder with thickness outside the range 0.07 mm - 0.10 mm (0.003" - 0.004") in automatic feed mode. In manual feed mode, never use paper whose thickness is outside the range 0.07 mm - 0.23 mm (0.003" - 0.01"). Doing so may cause paper jams or damage to the printer.

Paper jams can be caused by feeding in paper that is extremely smooth or shiny, too rough, or paper that easily picks up static electricity. Paper jams and other paper feed problems can tear the ribbons in ink cartridges.

To avoid such problems, please note the following precautions:

- Always use the recommended paper types, and be sure to set the printer's paper options properly. Settings that are not appropriate for the paper being used can cause paper jams.
- When printing on a thick sheet, or an irregular postcard-size sheet allow a 1/2 inch (12 mm) margin on the left and right side to prevent printing over the paper edge, this could result in tearing the ink cartridge ribbon.

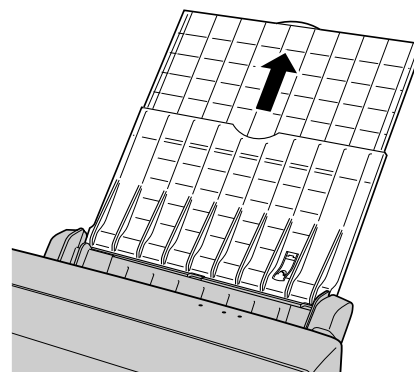
- When printing on used sheets (already printed on the same side), use manual feed only. Automatic feed may not feed used sheets properly. When using manual feed, avoid repeatedly inserting and removing the same sheet.

Loading paper in automatic feed mode

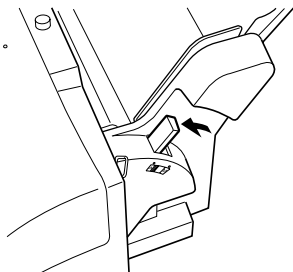
Use automatic feed mode for continuous printing. There are two methods for loading paper, depending on the media.

Loading high grade/laser paper and Press Papers

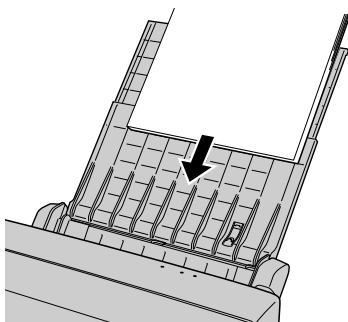
1. Pull the paper support upwards.



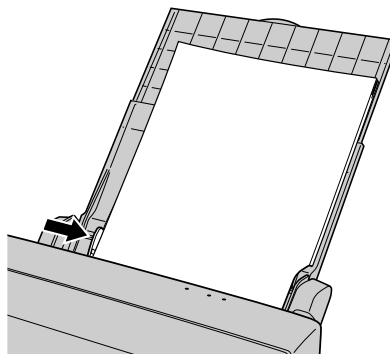
2. Set the paper feed switch to position “A”.



3. Place the paper in the sheet feeder.



4. Adjust the paper feed guide to the paper size.



Note 1:

Do not use creased or curled paper, this can cause the paper to misfeed.

Note 2:

Fan the paper once before placing it in the sheet feeder. This will prevent the paper sticking and printer feeding a number of sheets together.

Note 3:

Use only one type of paper at a time.

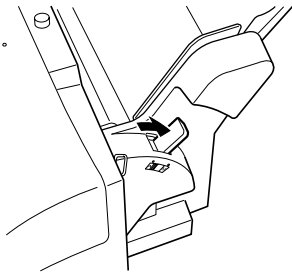
Note 4:

Pushing the paper feed guide too hard against the paper can bend the paper. Adjust the position of the paper feed guide so that it just touches the paper.

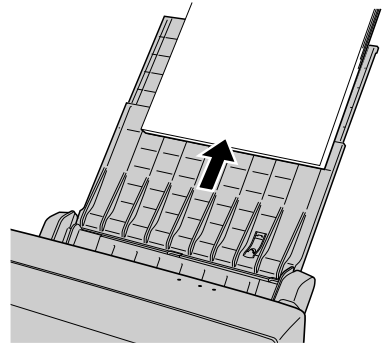
Loading paper in manual feed mode

Use manual feed mode when printing on thick paper, cards and other kinds of special printing media. In manual feed mode you should load only one sheet at a time.

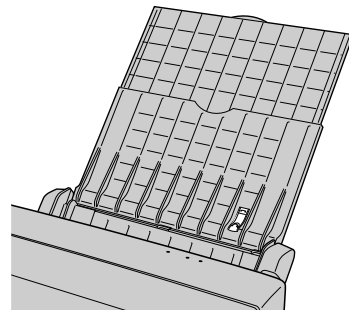
1. Set paper feed switch to position “M”.



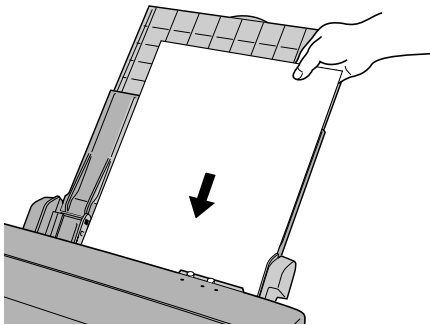
2. Remove any paper from the sheet feeder.



3. Make sure that the paper stopper is not lifted.



4. Insert the sheet of paper straight into the sheet feeder.



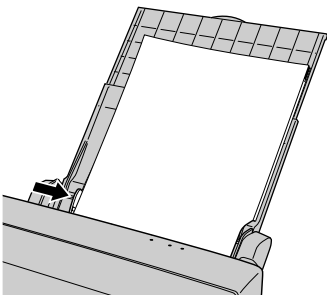
Note 1:

Paper that is creased or curled may print incorrectly.

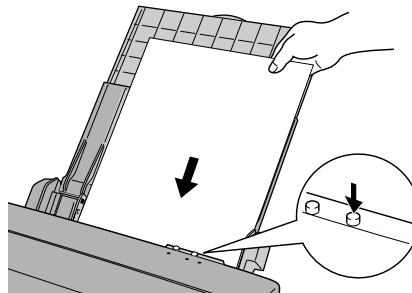
Note 2:

Make sure that you insert the paper straight. Inserting it at a slant can cause a paper jam.

5. Adjust the paper feed guide to the paper size.



6. Press the ready/insert button with supporting the paper by hand. The paper will be automatically pulled into the printer.



Chapter 3 - Installation and Operation, Macintosh

Installing the printer driver

Before you can use your printer, you need to install the correct printer driver software so that your computer can work with the printer.

This chapter describes how to install the supplied printer driver for an Apple Macintosh. These directions assume that you are familiar with normal Macintosh operations, such as using the mouse and menus. Please refer to the User's Guide that came with your Macintosh if you need information about general Macintosh operations.

Purpose of the printer driver

The printer driver is software that enables your computer to control the printer. When printing from any application, you must select a printer driver that matches the printer being used in order to ensure accurate printing results. To take advantage of the many features of this printer, select the correct printer driver before creating your documents.

Preparing for installation

Before installing the printer driver, check your hard disk with the Disk First Aid utility to make sure that it has no serious problems. Refer to the Macintosh User Guide for information about using Disk First Aid.

Turn on the power

Turn your printer and computer on or off in the following order;

- Push the **power** button on the printer to turn it on.
- Turn on your computer.

SCSI Connection

System requirements

The system and disk space requirements for the DP-7000 printer driver are as follows:

Computer:	Apple Macintosh computer or compatible	
Operating System:	System 7.6.1 to system 9	
Installed RAM:	32 MB or more (64 MB or more is recommended)	

VPhoto Printing	Monochrome image	Colour image
	20MB	80MB

Note 1:

The figures in Table 2 are approximations of the total disk space required when printing at VPhoto Colour mode.

Note 2:

The working disk space needed during printing is automatically erased after printing is completed.

Contents of the installation disk

The files shown below are contained on the Installation Disc CD-ROM. The installer will install the following files:

- Printer Driver
- ColorSync
- USB Class Driver^{*1}

^{*1} System 8.1 ~ 8.5.1

Installing the printer driver software

The CD-ROM includes the printer driver software. To install the printer driver software onto your Macintosh, follow these steps:

1. Insert the OKI DP-7000 installation Disc CD into your CD-ROM drive.
2. Locate **DP-7000 Printer Driver** folder and open it.
3. Open the **'UK English'** folder, and then double-click on the **Install OKI DP-7000** icon to start installation.
4. Follow the instructions on-screen to complete the installation.

Using balloon help

Balloon Help works on all versions of MacOS from 7.1 upwards. By displaying Balloon Help, you can get a simple explanation of each function. Follow the steps below to use Balloon Help.

1. Select **Show Balloons** from the **Help** menu (found on the menu bar, at the upper right corner of the screen).
2. Move the cursor over the button or box to be explained.
3. To hide Balloon Help, select **Hide Balloons** from the **Help** menu.

Selecting the correct driver

Before creating any documents in your application you should select the DP-7000 printer driver which you installed from the CD-ROM. If you want to print documents created when this printer driver was not selected, first select the DP-7000 printer in the **Chooser** menu, then choose **Page Setup** from your application's **File** menu. Finally change the application's page format and other settings if needed.

Follow the steps below to select the correct printer driver.

1. From the Apple menu, select the **Chooser**.
2. Click on the DP-7000 printer driver icon on the left side of the screen. The box on the right displays the SCSI device number of the printer.

Note:

Make sure the device number in the Select a SCSI port box is highlighted. If it is not, your printer is not being recognised. Click on the device number a few times. If it is still not highlighted, it is possible that the Finder has insufficient memory. In this case, close the Chooser, run any one of your application programs, and select the printer from the Chooser again.

3. If you have several identical printers connected, click on the SCSI device number of the printer you will use. The factory device setting is #6. To change SCSI device numbers, see 'Specifications and Settings' in Chapter 7.

Note 1:

If you have more than one SCSI bus in your Macintosh, "SCSI #6 BUS #1" or similar will be displayed.

Note 2:

*Immediately following installation, background printing is turned off. Click on the **On** button to enable background printing. Background printing will not be available if you did not install the Queue Kit software.*

4. Click on the **Close** box to close the **Chooser**.
5. When the selected printer driver is changed from a previous printer driver, a dialogue box will appear to inform you that a different printer has been selected. Click on the **OK** button to close the dialogue box.

Testing the printer

To make sure the printer is functioning correctly, use the **Print Desktop** command in the **Finder**. Before using **Print Desktop** check the following:

1. The printer is connected to the computer and is turned on.
2. The system folder window is open (if not, double-click the folder on the startup disk).
3. There is paper in the printer.

Page setup dialogue box

1. Select **Page Setup** from the **File** menu. The **Page Setup** dialogue box opens.
2. Make sure the paper type and size settings match the paper loaded in the printer, (factory settings are Press Paper-Matte, A4). If the paper type does not match, select the appropriate settings.

3. Close the **Page Setup** box by clicking **OK**.

Print dialogue box

1. Select **Print Desktop** from the **File** menu. The Print dialog box opens.
2. Select required settings and click **Print** to begin printing.

Print preview

You can preview your printed job by clicking the **Preview** button in the Print dialogue box, the desktop will appear on screen. To print the desktop, click **Print Page**. Printing begins.

When you finished printing, turn off your printing devices in the following order;

1. Shut down (and, if needed) turn off your computer.
2. Push the power button on the printer to turn it off.

USB Connection

System Requirements

The system and disk space requirements for the DP-7000 printer driver are as follows:

Computer:	Apple Macintosh computer or compatible with USB port
Operating System:	System8.1 with iMac update 1.0 or later

Installing printer software

1. Open the **OKI DP-7000 Printer Driver** folder.
2. Open the '**UK English**' folder, and then double-click on the **Install OKI DP-7000** icon.
3. Follow the instructions on-screen to complete the installation.

Using the OKI USB printer

Make sure that the USB interface cable is properly connected and your printer is turned on.

1. Select **Chooser** from the menu and click the **DP-7000** icon.

2. Go to **Select a USB printer** and select printer required.

Note:

When more than one OKI printer is connected to the USB port, each printer will be assigned a separate USB port number (USB #1, USB #2, and so on).

3. You can use **Background Printing**. Select the **On** button to enable Background Printing.
4. Close the Chooser. Click **OK** to confirm you have changed your current printer.
5. Now you are ready for printing. Refer to your User's Guide on the OKI Installation Disc for the printer driver settings.

Printing operations

When you have connected the cables to your printer and have installed the printer driver, you are ready to use your printer. The following describes step by step operations for monochrome and colour printing.

Printing in monochrome

The following paragraphs explain how to perform monochrome printing on plain paper.

Requirements

You need the following items for monochrome printing:

1. Ink cartridge
 - a Process Black ink cartridge.
2. Media
 - a High Grade Paper
 - b Press Paper
 - c VPhoto Film
3. Printing data

- a Printing data consisting of text and/or graphics created in your application.

Placing an ink cartridge in your printer

Make sure at least one black ink cartridge is installed in the ink cartridge holders.

Caution:

Do not place an ink cartridge directly into the carriage. Doing so may damage the printer.

Note 1:

If at least one of the ink cartridges in the five ink cartridge holders can be used in the selected printing mode, the carriage will automatically pick up that ink cartridge.

Note 2:

Refer to 'Installing Ink Cartridges in Chapter 2 for directions on installing ink cartridges.

Note 3:

Installing multiple ink cartridges of the same colour allows you to print more pages without stopping to replace spent ink cartridges.

Load the paper into your printer, for reference see Chapter 2, 'Loading Paper.'

Setting up the printer driver for Monochrome printing

1. In the application you want to print from, select **Page Setup** from the **File** menu to open the **Page Setup** dialogue box.
2. Make any necessary changes to the settings in the **Page Setup** dialogue box.
3. Set the **Media** to **High Grade Paper** and the **Size** to **A4**. When using a different type or size of paper, change the setup accordingly.
4. Click **OK** to close the **Page Setup** dialogue box.
5. Select **Print** from the **File** menu.
6. Make any necessary changes to the settings in the **Print** dialogue box.
 - a Select either **Greyscale** or **Black & White** from the **Type** menu.
 - b When you install a black ink cartridge, select **Standard Colour** from the **Mode** menu.

7. After completing your changes, click **Print** to start printing.

Printing in colour

The following paragraphs describe how to print standard colour images on plain paper.

Requirements

You need the following items for standard colour printing:

1. Ink cartridges
 - a Process Black ink cartridge
 - b Process Cyan ink cartridge
 - c Process Magenta ink cartridge
 - d Process Yellow ink cartridge
2. Media
 - a High grade paper
 - b Press Paper
 - c VPhoto Film
3. Printing data

- a Printing data consisting of text and/or graphics created in your application.

Placing ink cartridges in your printer

Make sure the ink cartridges listed above installed. The ink cartridges may be installed in any order.

Caution:

Do not place an ink cartridge directly into the carriage. Doing so may damage the printer.

Load the paper into your printer, for reference see Chapter 2, 'Loading Paper'.

Setting up the printer driver for colour printing

1. Follow steps 1 to 4 in 'Setting up the printer driver for monochrome printing'.
2. In the Print dialogue box select either **Automatic**, **Photographs**, or **Graphics & Text** from the **Type** menu.

Note 1:

When you select Photographs from the Type menu, Darker Black is automatically selected in the Colour Matching section of the Image Settings dialogue.

Note 2:

*If the Type menu is set to **Greyscale** or **Black & White** the coloured image will be printed in monochrome or in greyscale.*

3. Click the **Image** button in the **Print** dialogue box.
4. Make colour matching selections as required. For selection information see "Setting up colour matching option".
5. After the settings have been completed, click **OK**.
6. When you have completed your settings, click **Print** in the Print dialogue box. The printer prints cyan, magenta, yellow, and black in that order as the print head moves back and forth over the paper.

Note 1:

If the four ink cartridges (cyan, magenta, yellow, and black) are not installed, the error light will flash, and the printer will not print.

Note 2:

See Chapter 2, 'Initial Setup', for information on installing ink cartridges.

Setting up colour matching option

The printer has the following colour-matching options:

1. OKI DP-7000 Driver mode - This mode provides unique OKI colour matching. It is the default mode for colour printing.
2. ColorSync mode - When ColorSync is selected, the printer performs colour management using ColorSync™, which is part of the Macintosh system software.

Note:

A printer cannot exactly reproduce the colours shown on a monitor because the printer uses inks to create colours while the monitor uses light. However, the printer will try to match the monitor colours as closely as possible.

3. No Colour Matching - The colour information for print data is output directly to the printer.

To use ColorSync, follow these steps.

1. Open the **ColorSync™ System Profile** in the Apple Control Panels and click **Set Profile...**
2. Select **DP-7000 Monitor-D50** from the list displayed, and then click **Select**.

Note:

The D50 in the profile indicates the colour temperature of the monitor. Most monitors are set to a colour temperature of D93 (9300K). However, CIE sets a

English

colour temperature of D50 (5000K) as a reference for colour reproduction based on the human colour sense under a standard light source. The ColorSync™ profile of this printer conforms to this standard.

3. Set the Monitor's Colour Temperature. Since the ColorSync profile is set to **DP-7000 Monitor-D50**, the printer and monitor colours will not match unless the colour temperature of your monitor is set at D50. To set the monitor's colour temperature see your computer's reference manual for details.

Note 1:

Some monitors do not allow the colour temperature to be changed. In this case, open Monitor & Sound in Control Panels and set the Gamma option to Page-White Gamma, which provides a colour temperature similar to D50.

Note 2:

Once you have completed steps 1 through 3, you should not need to repeat them unless you wish to change the settings.

4. Prepare print data and set up the paper for printing. Select **Print** from the **File** menu.

Note:

The contents of the Print dialogue box depend on the

application software. If the colour setting options RGB, CMYK, or others are available in the dialogue box, select the RGB option. If you select the CMY option, the printed output will differ from the colours displayed on the monitor.

5. To enable the ColorSync function during printing. Click the **Image..** button in the Print dialogue box to display the Colours dialogue box. Select **ColorSync** from the **Colour Matching** options. After the settings have been completed, click **OK**.

Note:

When printing a photograph, it is advisable to turn on the Darker Black option. The darkness graduation will then be smoothed because black will be expressed by all four colours .

6. After returning to the Print dialogue box, click **Print** to start printing.

Printing on reverse side

The DP-7000 printer has a special option for printing on the reverse side of paper. The **Print On Reverse** option skips the paper curl reforming process for best printing results.

Setting up the printer driver for printing on reverse side

1. In the application you want to print with, select **Page Setup** from the **File** menu to open the Page Setup dialogue box.
2. Make any necessary changes to the settings in the Page Setup dialogue box.
3. Set the **Media** to **High Grade Paper**, and the **Size** to **A4**. When using a different type or size of paper, change the setup accordingly.
4. After making any changes required, click **OK** to close the Page Setup dialogue box.
5. Select **Print** from the **File** menu to display the Print dialogue box.
6. Select either **Automatic**, **Photographs** or **Graphics & Text** from the **Type:** menu.

Note 1:

When you select Photographs or Graphics & Text from the Type menu, Darker Black is automatically selected in the Colour Matching section of the Image... settings dialogue.

Note 2:

*If the Type menu is set to **Greyscale** or **Black & White***

the coloured image will be printed in monochrome or in greyscale.

7. Click **Image...** in the Print dialogue box.
8. Make colour matching selections as required. After the settings have been completed, click **OK**.
9. In the Print dialogue box select **Print On Reverse** option.

Caution:

When printing on the reverse side of paper, the printer needs periodic maintenance for cleaning to ensure best results. See 'Cleaning the Feed Roller' and 'Cleaning the Platen' in Chapter 4

Note:

When you select certain media types this option will not be available.

10. Click **Print** in the Print dialogue box to start printing.

Chapter 4 - Specialised Printing Operations

VPhoto colour printing

Colour printing on Press Paper and VPhoto film

The following describes how to print colour images on VPhoto print media. Photographic-like quality can be achieved by printing images on VPhoto print media with standard inks. This is very effective when printing multicolored images such as computer graphics.

Requirements

You need the following items for colour printing on VPhoto print film.

1. Media
 - a Press Paper-Matte, Press Paper-Art or VPhoto film
2. Ink Cartridges
 - a Process Cyan ink cartridge

- b Process Magenta ink cartridge
- c Process Yellow ink cartridge
- d Process Black ink cartridge
- e Finish II ink cartridge (This is an optional cartridge that you can use for your printing.)

Prepare the image to be printed

Create the image or document you want to print by arranging text, graphic objects, photographs, etc. in your application.

Install ink cartridges

Install the five ink cartridges listed above into the ink cartridge holders. The ink cartridges may be installed in any order. For details on installation refer to 'Installing Ink Cartridges' in Chapter 2.

Load VPhoto film in your printer

You may use either automatic feed mode (position 'A') or manual feed mode (position 'M') when loading the film into your printer.

Note:

VPhoto Film is very adhesive. When loading the multiple sheets, fan them thoroughly before loading to make sure that they do not adhere to one another. Store unused sheets in the package. For best results, use single sheet and manual feed.

Setting up the printer driver for printing

1. In the application you want to print from, select **Page Setup** from the **File** menu to open the **Page Setup** dialogue box.
2. Make any necessary changes to the settings in the **Page Setup** dialogue box
3. Set the **Media** to **Press Paper-Matte/Art** or **VPhoto Film** and the **Size** to match the paper loaded in the printer. When using a different type or size of paper, change the setup accordingly.
4. Click **OK** to close the **Page Setup** dialogue box.

5. In the Print dialogue box select **Automatic**, **Photographs, Graphics & Text**, or **Grayscale** from the **Type** menu.
6. Click the **Image** button in the **Print** dialogue box.
7. Make colour matching selections as required. For selection information see "Setting up colour matching option".
8. If you want obtain glossy finish, check the **Glossy Finish** check box.
9. After the settings have been completed, click **OK**.
10. When you have completed your settings, click **Print** in the Print dialogue box to start printing.

Note:

*We recommend that Glossy Finish is not normally set. If you do not want this setting, click the **More Settings** button, then check the **Glossy Finish** check box.*

11. Click **Print** in the Print dialog box to start printing.

Colour printing on High Grade Paper

The following describes how to print colour images on High Grade Paper.

Requirement

You need the following items for colour printing on High Grade Paper.

1. Media
 - a High Grade Paper
2. Ink Cartridges
 - a Process Cyan ink cartridge
 - b Process Magenta ink cartridge
 - c Process Yellow ink cartridge
 - d Process Black ink cartridge
 - e Finish II ink cartridge (This is an optional cartridge that you can use for your printing.)

Prepare the image to be printed

Create the image or document you want to print by arranging text, graphic objects, photographs, etc. in your application.

Install ink cartridges

Install the ink cartridges listed above into the ink cartridge holders. The ink cartridges may be installed in any order. For details on installation refer to 'Installing Ink Cartridges' in Chapter 2.

Load the paper in your printer

You may use either automatic feed mode (position "A") or manual feed mode (position "M") when loading the film into your printer.

Setting up the printer driver for printing

1. In the application you want to print from, select **Page Setup** from the **File** menu to open the **Page Setup** dialogue box.

2. Make any necessary changes to the settings in the **Page Setup** dialogue box
3. Set the **Media** to **High Grade Paper** and the **Size** to match the paper loaded in the printer. When using a different type or size of paper, change the setup accordingly.
4. Click **OK** to close the **Page Setup** dialogue box.
5. In the Print dialogue box select **Automatic**, **Photographs**, **Graphics & Text** , or **Grayscale** from the **Type** menu.
6. Click the **Image** button in the **Print** dialogue box.
7. Make colour matching selections as required. For selection information see “Setting up colour matching option”.
8. After the settings have been completed, click **OK**.
9. When you have completed your settings, click **Print** in the Print dialogue box to start printing.
12. Click **Print** in the Print dialog box to start printing.

Note 1:

*If you do not want this setting, click the **More Settings** button, then check the **Glossy Finish** check box.*

10. Make any other necessary changes to the settings.
11. When you complete the setup, click **OK** to close the dialog box.

Printing in Metallic Colour

Metallic colour printing is one of the unique features of the OKI DP-7000 printer. The printer driver allows you to select specific colours or colour components that will be replaced by foil colours and black ink when printing.

You can print with up to one metallic colour, (or four metallic colours plus black) from most applications that allow colour specification. Moreover, because metallic inks are opaque, metallic colour printing is unaffected by the colour of the underlying paper.

Note 1:

Depending on the font type, size or paper type, metallic colour ink may not always be well applied.

The following types of metallic colour printing are possible depending on the number of ink cartridges used.

- Single metallic colour printing Metallic colour printing using a single colour (Magenta, Cyan, gold or silver).
- Multi metallic colour printing - Metallic colour printing using four colours (Magenta, Cyan, gold and silver).

- Full colour plus metallic colour printing - Simultaneous full colour and metallic colour printing.

Single metallic colour printing

Single metallic colour printing uses just one metallic colour. Only the metallic colour to be used is installed in the printer. This method of printing is used when an entire image (including grayscale images) or document is going to be printed in a single metallic colour. Single metallic colour printing can be used even when the application you are using does not allow designation of colour components.

Requirements

For single metallic colour printing you will need the following.

1. Media
 - a Press Paper, High Grade Paper, etc. can be used as with normal colour printing.
2. Ink cartridges

Use either one of the following ink cartridges.

- a Metallic Magenta ink cartridge
- b Metallic Cyan ink cartridge
- c Metallic Gold ink cartridge
- d Metallic Silver ink cartridge

Prepare the image to be printed

Use any application to create the image or document you want to print, and prepare it as you would for normal printing.

Note:

It is not necessary to select a colour in the application that matches the colour of the ink cartridge in the printer. Leaving the characters and images in black is acceptable.

Install ink cartridges

Install the desired metallic colour (Magenta, Cyan, gold or silver) into the ink cartridge holders. The ink cartridges may be installed in any order.

Load the paper in your printer

The method used for loading paper depends on the paper type. Use manual feed mode for cardboard (thick paper) and greeting cards. For Press Paper or High Grade Paper, you may also use automatic feed mode.

Setting up the printer driver for printing

1. In the application you want to print from, select **Page Setup** from the **File** menu to open the **Page Setup** dialogue box.
2. Make any necessary changes to the settings in the **Page Setup** dialogue box
3. Set the **Media** to Press **Paper-Matte/Art, High Grade Paper**, or **Cardboard (Thick Paper) High Grade Paper** and the **Size** to match the paper loaded in the printer. When using a different type or size of paper, change the setup accordingly.
4. Click **OK** to close the **Page Setup** dialogue box.
5. In the Print dialogue box click the **Use Spot Colours** check box.
6. In the **Spot Colours Setting** dialogue box click the **Use Spot Colour(s)** radio button.

7. Select **Single Ink (No Halftone)** or **Single Ink (Halftone)** from the **Print Using** pop-up menu.
8. After the settings have been completed, click **OK**.
9. In the **Print** dialogue box click **OK**.
10. In **Select Ink Cartridge(s)** enabled ink cartridges among those installed in the printer are displayed. Click the radio button(s) of the ink cartridge(s) to be used.
11. When the correct ink cartridge is selected, click **OK** to start printing.

Note:

If bidirectional communication is not possible, all the usable ink cartridges are displayed.

12. When you complete the setup, click **OK** to close the dialog box.
13. Click **Print** in the Print dialog box to start printing.

Multi metallic colour printing

Use the steps outlined below for foil colour printing using four metallic colour ink cartridges. By associating each foil colour with a colour (or colour component) in your application, you can print with four

metallic colours or four metallic colours plus black. You can use this method with most applications that support colour.

Requirements

The media and ink cartridge requirements for multi metallic colour printing are the same as in the single metallic colour printing.

Prepare the image to be printed

Use any application to create the image or document you want to print. Then set the colours corresponding to each metallic colour you want to use. For example, set the parts of the image that you want to print in gold foil to yellow and those of the image that you want to print in silver foil to grey. When you want to print metallic colours and black simultaneously, you must also specify the area you want to print in black.

Note 1:

Since all of the colour and grayscale data is binarized in multi colour printing, gradation cannot be represented.

Note 2:

White portions of data (R=G=B=100%) are not printed.

In multi metallic colour printing, indicate metallic colours by selecting colours in the application that most closely resemble the metallic colours. Try to select colours that resemble the colours listed in the tables below. In applications that do not have many colour choices, such as word processors, closely related colours can be used.

Metallic Colour	Application colour used to indicate the metallic colour
Metallic Gold	Yellow (or yellow/orange)
Metallic Silver	Grey
Metallic Magenta	Magenta, Red (a red close to magenta)
Metallic Cyan	Cyan, Blue (a blue close to cyan)
Black (normal)	Normal black (R=G=B=0 or C=M=Y=0, K=100)

- Colour compositions using RGB settings (n/255)

Metallic Colour	R	G	B
Metallic Gold	225	160	0
Metallic Silver	189	193	197
Metallic Magenta	163	36	115
Metallic Cyan	0	176	201

- Colour compositions using RGB settings (n/100%)

Metallic Colour	R	G	B
Metallic Gold	88	63	0
Metallic Silver	74	76	77

Metallic Colour	R	G	B
Metallic Magenta	64	14	45
Metallic Cyan	0	69	79

Note:

For instructions on changing colour component settings within an application, refer to your software application User manual. Depending on the application, a metallic colour may not print correctly even though the colour settings were properly set in the application. Check the Preview window before printing, and try increasing or decreasing the setting to get the correct foil colour to print.

Install ink cartridges

Install the gold and silver foil colour ink cartridges. The ink cartridges can be installed in any order.

Load the paper in your printer

Use manual feed mode for cardboard (thick paper). For Press Paper or High Grade Paper, you can use automatic feed mode.

Setting up the printer driver for printing

1. In the application you want to print from, select **Page Setup** from the **File** menu to open the **Page Setup** dialogue box.
2. Make any necessary changes to the settings in the **Page Setup** dialogue box
3. Set the **Media** to **Press Paper-Matte/Art, High Grade Paper**, or **Cardboard (Thick Paper) High Grade Paper** and the **Size** to match the paper loaded in the printer. When using a different type or size of paper, change the setup accordingly.
4. Click **OK** to close the **Page Setup** dialogue box.
5. In the Print dialogue box click the **Use Spot Colours** check box.
6. In the **Spot Colours Setting** dialogue box click the **Use Spot Colour(s)** radio button.
7. Select **Multiple Inks** from the **Print Using** pop-up menu.
8. After the settings have been completed, click **OK**.
9. In the Print dialogue box click **OK**.
10. In **Select Ink Cartridge(s)** enabled ink cartridges among those installed in the printer are displayed.

Click the radio button(s) of the ink cartridge(s) to be used.

11. When the correct ink cartridge is selected, click **OK** to start printing.

Note 1:

If bidirectional communication is not possible, all the usable cartridges are displayed.

Note 2:

Even though you have set the colour of an area to a desired colour in your application, the area will not be printed if the corresponding ink cartridge has not selected.

12. When you complete the setup, click **OK** to close the dialog box.
13. Click **Print** in the Print dialog box to start printing.

Simultaneous full colour and metallic colour printing

The following paragraphs describe how to print full colour and metallic colour simultaneously. This printing method differentiates between metallic colour and full colour areas depending on their colour component. For this reason, it is necessary to assign the

correct colour to each area. This printing method is used with applications that allow the user to accurately specify colour components.

Requirements

For simultaneous full colour and metallic colour printing you will need the following.

1. Media
 - a Press Paper or High Grade Paper, etc. can be used as with normal colour printing.

2. Ink cartridges

The following ink cartridges can be used for simultaneous full colour and foil colour printing.

- a Metallic Magenta ink cartridge
- b Metallic Cyan ink cartridge
- c Metallic Gold ink cartridge
- d Metallic Silver ink cartridge
- e Process Cyan ink cartridge
- f Process Magenta ink cartridge
- g Process Yellow ink cartridge
- h Process Black ink cartridge

- i Finish II ink cartridge

Note:

Only a maximum of nine ink cartridges can be installed in the printer at any one time. Cyan, Magenta, Yellow and Black cartridges must always be installed. The Foil and Finish II cartridges are optional.

Prepare the image to be printed

Create the data you want to print, then set the image areas to be printed in metallic colours to colours that correspond to the metallic colours you want to use. For the colours (and colour components) that correspond to each metallic colour, refer to the table below.

Note:

There are a small range of colour component values that will be interpreted by the printer as indicating metallic colours. Because of this, photographs and other data with many different colours may have areas that match the metallic colour designations and print only partially in foil colour. When printing images that contain data such as photographs, it is best to print full colour plus metallic colour using Overlay mode

In simultaneous full colour plus metallic colour printing, indicate the Red, Blue, gold and silver metallic

colours by selecting the corresponding colour component. For characters of 32 points or more, select the following approximate colours.

Metallic Colour	Application colour used to indicate the metallic colour
Metallic Gold	Yellow (or yellow/orange)
Metallic Silver	Grey
Metallic Magenta	Magenta, Red (a red close to magenta)
Metallic Cyan	Cyan, Blue (a blue close to cyan)
Black (normal)	Normal black (R=G=B=0 or C=M=Y=0, K=100)

- Colour compositions using RGB settings (n/255)

Metallic Colour	R	G	B
Metallic Gold	225	160	0
Metallic Silver	189	193	197
Metallic Magenta	163	36	115
Metallic Cyan	0	176	201

- Colour compositions using RGB settings (n/100%)

Metallic Colour	R	G	B
Metallic Gold	88	63	0
Metallic Silver	74	76	77
Metallic Magenta	64	14	45
Metallic Cyan	0	69	79

Note 1:

Some applications make internal adjustment to produce the displayed colour components. In such cases, the colour components cannot be restricted and therefore metallic colours cannot be used. When using such an application, use the Overlay mode.

Note 2:

There are a small range of colour component values which are close to a metallic colour. These colours will be interpreted by the printer as indicating metallic colours and will be printed in the respective metallic colour.

Install ink cartridges

Install all the ink cartridges specified in Requirements into the ink cartridge holders. Simultaneous full colour plus metallic colour printing is possible by exchanging ink cartridges when the corresponding message is displayed.

Load the paper in your printer

The method used for loading paper depends on the paper type used.

Setting up the printer driver for printing

1. In the application you want to print from, select **Page Setup** from the **File** menu to open the **Page Setup** dialogue box.
2. Make any necessary changes to the settings in the **Page Setup** dialogue box
3. Set the **Media** to **Press Paper-Matte/Art, High Grade Paper**, or **Cardboard (Thick Paper) High Grade Paper** and the **Size** to match the paper loaded in the printer. When using a different type or size of paper, change the setup accordingly.
4. Click **OK** to close the **Page Setup** dialogue box.
5. In the Print dialogue box click the **Use Spot Colours** check box.
6. In the **Spot Colours Setting** dialogue box click the Use **Spot Colour(s)** radio button.
7. Select **Metallics & CMYK Inks** from the **Print Using** pop-up menu.
8. After the settings have been completed, click **OK**.
9. In the Print dialogue box click **OK**.
10. In **Select Ink Cartridge(s)** enabled ink cartridges among those installed in the printer are displayed.

Click the radio button(s) of the ink cartridge(s) to be used.

11. When the correct ink cartridge is selected, click **OK** to start printing.

Note 1:

Even though you have set the colour of an area to your desired colour in your application, the area will not be printed if the corresponding ink cartridge has not been selected.

Note 2:

If a selected foil colour ink cartridge is not installed, a warning message will be displayed. In this case, exchange ink cartridges as indicated in the message.

12. When you complete the setup, click **OK** to close the dialog box.
13. Click **Print** in the Print dialog box to start printing.

Printing in foil colour

Foil colour printing is one of the unique features of the OKI DP-7000 printer. The printer driver allows you to select specific colours or colour components that will be replaced by foil colours and black ink when printing.

You can print with up to two foil colours, (or two foil colours plus black) from most applications that allow colour specification. Moreover, because foil inks are opaque, foil colour printing is unaffected by the colour of the underlying paper.

Note 1:

Black Spot ink is used for foil colour printing. Therefore, undercoat must be applied using Black Spot ink before printing foil colour.

Note 2:

Depending on the font type, size or paper type, foil colour ink may not always be well applied.

The following types of foil colour printing are possible depending on the number of ink cartridges used.

- Single foil colour printing (without halftone) - Foil colour printing using a single colour (gold or silver).

- Multi foil colour printing - Foil colour printing using two colours (gold and silver).
- Full colour plus foil colour printing - Simultaneous full colour and foil colour printing.

Single foil colour printing

Single foil colour printing uses just one foil colour. Only the foil colour to be used is installed in the printer. This method of printing is used when an entire image (including grayscale images) or document is going to be printed in a single foil colour. Single foil colour printing can be used even when the application you are using does not allow designation of colour components.

Requirements

For single foil colour printing you will need the following.

1. Media
 - a Press Paper, High Grade Paper, etc. can be used as with normal colour printing.

2. Ink cartridges

Use either one of the following ink cartridges.

- a Gold Foil ink cartridge
- b Silver Foil ink cartridge

The following ink cartridges are also necessary for undercoating.

- a Black Spot ink cartridge

Prepare the image to be printed

Use any application to create the image or document you want to print, and prepare it as you would for normal printing.

Note:

It is not necessary to select a colour in the application that matches the colour of the ink cartridge in the

printer. Leaving the characters and images in black is acceptable.

Install ink cartridges

Install the desired foil colour (gold or silver) plus the undercoat inks, cyan, magenta, yellow, and black into the ink cartridge holders. The ink cartridges may be installed in any order.

Load the paper in your printer

The method used for loading paper depends on the paper type. Use manual feed mode for cardboard (thick paper) and greeting cards. For Press Paper or High Grade Paper, you may also use automatic feed mode.

Setting up the printer driver for printing

1. In the application you want to print from, select **Page Setup** from the **File** menu to open the **Page Setup** dialogue box.
2. Make any necessary changes to the settings in the **Page Setup** dialogue box
3. Set the **Media** to **Press Paper-Matte/Art, High Grade Paper, or Cardboard(Thick Paper)** and the **Size** to match the paper loaded in the printer.

When using a different type or size of paper, change the setup accordingly.

4. Click **OK** to close the **Page Setup** dialogue box.
5. In the Print dialogue box click the **Use Spot Colours** check box.
6. In the **Spot Colours Setting** dialogue box click the **Use Foil Colour(s)** radio button.
7. Select **Single Ink (No Halftone)** from the **Print Using** pop-up menu.
8. After the settings have been completed, click **OK**.
9. In the **Print** dialogue box click **Ok**.
10. In **Select Ink Cartridge(s)** enabled ink cartridges among those installed in the printer are displayed. Click the radio button(s) of the ink cartridge(s) to be used.
11. When the correct ink cartridge is selected, click **OK** to start printing.

Note:

If bidirectional communication is not possible, all the usable ink cartridges are displayed.

12. When you complete the setup, click **OK** to close the dialog box.

13. Click **Print** in the Print dialog box to start printing.

Multi foil colour printing

Use the steps outlined below for foil colour printing using two foil colour ink cartridges. By associating each foil colour with a colour (or colour component) in your application, you can print with two foil colours or two foil colours plus black. You can use this method with most applications that support colour.

Requirements

The media and ink cartridge requirements for multi foil colour printing are the same as in the single foil colour printing. The only difference being that both gold and silver foil ink cartridges must be used.

Prepare the image to be printed

Use any application to create the image or document you want to print. Then set the colours corresponding to each foil colour you want to use. For example, set the parts of the image that you want to print in gold foil to yellow and those of the image that you want to print in silver foil to grey. When you want to print foil colours and black simultaneously, you must also specify the area you want to print in black.

Note 1:

Since all of the colour and grayscale data is binarized in multi colour printing, gradation cannot be represented.

Note 2:

White portions of data ($R=G=B=100\%$) are not printed.

In multi foil colour printing, indicate foil colours by selecting colours in the application that most closely resemble the foil colours. Try to select colours that resemble the colours listed in the tables below. In applications that do not have many colour choices, such as word processors, closely related colours can be used.

Foil Colour	Application colour used to indicate the foil colour
Gold Foil	Yellow (or yellow/orange)
Silver Foil	Grey
Black (normal)	Normal black ($R=G=B=0$ or $C=M=Y=0$, $K=100$)

- Colour compositions using RGB settings (n/255)

Foil Colour	R	G	B
Gold Foil	225	160	0
Silver Foil	189	193	197

- Colour compositions using RGB settings (n/100%)

Foil Colour	R	G	B
Gold Foil	88	63	0
Silver Foil	74	76	77

Note:

For instructions on changing colour component settings within an application, refer to your software application User manual. Depending on the application, a foil colour may not print correctly even though the colour settings were properly set in the application. Check the Preview window before printing, and try increasing or decreasing the setting to get the correct foil colour to print.

Install ink cartridges

Install the gold and silver foil colour ink cartridges plus the undercoat ink cartridges listed in Requirements. The ink cartridges can be installed in any order.

Load the paper in your printer

Use manual feed mode for cardboard (thick paper). For Press Paper or High Grade Paper, you can use automatic feed mode.

Setting up the printer driver for printing

1. In the application you want to print from, select **Page Setup** from the **File** menu to open the **Page Setup** dialogue box.
2. Make any necessary changes to the settings in the **Page Setup** dialogue box
3. Set the **Media** to **Press Paper-Matte/Art, High Grade Paper**, or **Cardboard (Thick Paper) High Grade Paper** and the **Size** to match the paper loaded in the printer. When using a different type or size of paper, change the setup accordingly.
4. Click **OK** to close the **Page Setup** dialogue box.
5. In the Print dialogue box click the **Use Spot Colours** check box.
6. In the **Spot Colours Setting** dialogue box click the **Use Foil Colour(s)** radio button.
7. Select **Multiple Inks** from the **Print Using** pop-up menu.
8. After the settings have been completed, click **OK**.
9. In the Print dialogue box click **OK**.
10. In **Select Ink Cartridge(s)** enabled ink cartridges among those installed in the printer are displayed.

Click the radio button(s) of the ink cartridge(s) to be used.

11. When the correct ink cartridge is selected, click **OK** to start printing.

Note 1:

If bidirectional communication is not possible, all the usable cartridges are displayed.

Note 2:

Even though you have set the colour of an area to a desired colour in your application, the area will not be printed if the corresponding ink cartridge has not selected.

12. When you complete the setup, click **OK** to close the dialog box.
13. Click **Print** in the Print dialog box to start printing.

Simultaneous full colour and foil colour printing

The following paragraphs describe how to print full colour and foil colour simultaneously. This printing method differentiates between foil colour and full colour areas depending on their colour component. For this reason, it is necessary to assign the correct colour

to each area. This printing method is used with applications that allow the user to accurately specify colour components.

Requirements

For simultaneous full colour and foil colour printing you will need the following.

1. Media
 - a Press Paper or High Grade Paper, etc. can be used as with normal colour printing.

2. Ink cartridges

The following ink cartridges can be used for simultaneous full colour and foil colour printing.

- a Gold Foil ink cartridge
- b Silver Foil ink cartridge
- c Process Cyan ink cartridge
- d Process Magenta ink cartridge
- e Process Yellow ink cartridge
- f Process Black ink cartridge
- g Finish II ink cartridge

Note:

Only a maximum of nine ink cartridges can be installed in the printer at any one time. Cyan, Magenta, Yellow and Black cartridges must always be installed. The Foil and Finish II cartridges are optional.

Prepare the image to be printed

Create the data you want to print, then set the image areas to be printed in foil colours to colours that correspond to the foil colours you want to use. For the colours (and colour components) that correspond to each foil colour, refer to the tables on page 5-12.

Note:

There are a small range of colour component values that will be interpreted by the printer as indicating foil colours. Because of this, photographs and other data with many different colours may have areas that match the foil colour designations and print only partially in foil colour. When printing images that contain data such as photographs, it is best to print full colour plus foil colour using Overlay mode

In simultaneous full colour plus foil colour printing, indicate the gold and silver foil colours by selecting the corresponding colour component. For characters of 32

points or more, select the following approximate colours.

Foil Colour	Application colour used to indicate the foil colour
Gold Foil	Yellow (or yellow/orange)
Silver Foil	Grey

- Colour compositions using RGB settings (n/255)

Foil Colour	R	G	B
Gold Foil	225	160	0
Silver Foil	189	193	197

- Colour compositions using RGB settings (n/100%)

Foil Colour	R	G	B
Gold Foil	88	63	0
Silver Foil	74	76	77

Note 1:

Some applications make internal adjustment to produce the displayed colour components. In such cases, the colour components cannot be restricted and therefore foil colours cannot be used. When using such an application, use the Overlay mode.

Note 2:

There are a small range of colour component values which are close to a foil colour. These colours will be

interpreted by the printer as indicating foil colours and will be printed in the respective foil colour.

Install ink cartridges

Install all the ink cartridges specified in Requirements into the ink cartridge holders. Simultaneous full colour plus foil colour printing is possible by exchanging ink cartridges when the corresponding message is displayed.

Load the paper in your printer

The method used for loading paper depends on the paper type used.

Setting up the printer driver for printing

1. In the application you want to print from, select **Page Setup** from the **File** menu to open the **Page Setup** dialogue box.
2. Make any necessary changes to the settings in the **Page Setup** dialogue box
3. Set the **Media** to **Press Paper-Matte/Art, High Grade Paper**, or **Cardboard (Thick Paper) High Grade Paper** and the **Size** to match the paper loaded in the printer. When using a different type or size of paper, change the setup accordingly.

4. Click **OK** to close the **Page Setup** dialogue box.
5. In the Print dialogue box click the **Use Spot Colours** check box.
6. In the **Spot Colours Setting** dialogue box click the **Use Foil Colour(s)** radio button.
7. Select **Metallics & CMYK Inks** from the **Print Using** pop-up menu.
8. After the settings have been completed, click **OK**.
9. In the **Print** dialogue box click **OK**.
10. In **Select Ink Cartridge(s)** enabled ink cartridges among those installed in the printer are displayed. Click the radio button(s) of the ink cartridge(s) to be used.
11. When the correct ink cartridge is selected, click **OK** to start printing.

Note 1:

Even though you have set the colour of an area to your desired colour in your application, the area will not be printed if the corresponding ink cartridge has not been selected.

Note 2:

If a selected foil colour ink cartridge is not installed, a

warning message will be displayed. In this case, exchange ink cartridges as indicated in the message.

12. When you complete the setup, click **OK** to close the dialog box.
13. Click **Print** in the Print dialog box to start printing.

Printing on transparencies or transfer film

The following paragraphs describe how to print full colour graphic images and text on transparencies.

The OKI transparency film has an additional benefit in that it shrinks when heat is applied - ideal for creative package design. Transfer film may be used when a print is required on a material that will not pass through the printer either because it is too big or too thick. An iron is used to transfer the image.

Requirements

For printing on transparencies or transfer film, you will need the following.

1. Media
 - a DP-7000 Transfer film and Transparency Film.
2. Ink cartridges

The following ink cartridges can be used.

 - a Process Cyan ink cartridge
 - b Process Magenta ink cartridge
 - c Process Yellow ink cartridge

d Process Black ink cartridge

3. Others

- a Dryer For Transparency films
- b Iron For Transfer films
- c Transcription papers For Transfer films

Caution:

When printing on transparencies, use only OKI DP-7000 transparency film. Using other transparency films may cause damage to the printer.

Prepare the image to be printed

Create the text and graphics to be printed in your application. Take care to lay them out within the printing area of the transparency film or transfer film.

Install ink cartridges

Install the ink cartridges listed above into the ink cartridge holders. The ink cartridges may be installed in any order.

Load the transparency film or transfer film

1. Fan the sheets before loading them into the printer to ensure they do not stick together.
2. Load the sheets into the manual feed slot in the correct orientation. The cut corner at the end of the sheet should be first located into the left side of the printer (when viewed from the front).
3. To prevent jams remove the sheets immediately after printing.

Setting up the printer driver for printing

1. In the application you want to print from, select **Page Setup** from the **File** menu to open the **Page Setup** dialogue box.
2. Make any necessary changes to the settings in the **Page Setup** dialogue box
3. Set the **Media** to **Transparency Film** or **Transfer Film** and the **Size** to match the paper loaded in the printer. When using a different type or size of paper, change the setup accordingly.

Note:

When **Transparency Film** is selected from **Media** pop-up Menu, **A3+** is automatically set.

4. Click **OK** to close the **Page Setup** dialogue box.
5. In the Print dialogue box select **Automatic**, **Photographs**, or **Graphics & Text** from the **Type** menu.
6. Click the **Image** button in the **Print** dialogue box.
7. Make colour matching selections as required. For selection information see “Setting up colour matching option”.
8. After the settings have been completed, click **OK**.
9. When you have completed your settings, click **Print** in the Print dialogue box to start printing.

Note 1:

Shrinking transparency film

When printing is complete, use a heater/hairdryer to shrink the film.

Please read the detailed explanation in the notes that come with the transparency film.

Note 2 :

Using the transfer film

When printing is complete use an iron to transfer the image to the media. For additional information please read the instructions that come with the transfer film.

Printing on transparencies with opaque white ink or transfer film

The following paragraphs describe how to print full colour graphic images and text on transparencies.

After graphic images and text are printed in full-colour on transparency film or transfer film, an opaque white layer is printed on the back of the image. This means that the image print-out is unaffected by the colour of the background material.

Requirements

For printing on transparencies or transfer film, you will need the following.

1. Media
 - a DP-7000 Transfer film and Transparency Film.
2. Ink cartridges

The following ink cartridges can be used.

 - a Process Cyan ink cartridge
 - b Process Magenta ink cartridge
 - c Process Yellow ink cartridge

d Process Black ink cartridge

e Opaque White ink cartridge

3. Others

a Dryer For Transparency films

b Iron For Transfer films

c Transcription papers For Transfer films

Caution:

When printing on transparencies, use only OKI DP-7000 transparency film. Using other transparency films may cause damage to the printer.

Prepare the image to be printed

Create the text and graphics to be printed in your application. Take care to lay them out within the printing area of the transparency film or transfer film.

Install ink cartridges

Install the ink cartridges listed above into the ink cartridge holders. The ink cartridges may be installed in any order.

Load the transparency film or transfer film

1. Fan the sheets before loading them into the printer to ensure they do not stick together.
2. Load the sheets into the manual feed slot in the correct orientation. The cut corner at the end of the sheet should be first located into the left side of the printer (when viewed from the front).
3. To prevent jams remove the sheets immediately after printing.

Setting up the printer driver for printing

1. In the application you want to print from, select **Page Setup** from the **File** menu to open the **Page Setup** dialogue box.
2. Make any necessary changes to the settings in the **Page Setup** dialogue box
3. Set the **Media** to **Transparency Film** or **Transfer Film** and the **Size** to match the paper loaded in the printer. When using a different type or size of paper, change the setup accordingly.

Note:

When **Transparency Film** is selected from **Media** pop-up Menu, **A3+** is automatically set.

4. Click **OK** to close the **Page Setup** dialogue box.
5. In the Print dialogue box select **Automatic**, **Photographs**, or **Graphics & Text** from the **Type** menu.
6. Click the **Image** button in the **Print** dialogue box.
7. Make colour matching selections as required. For selection information see “Setting up colour matching option”.
8. If you want overprint a coat of opaque white, check the **Opaque White(overprint)** check box.
9. After the settings have been completed, click **OK**.
10. When you have completed your settings, click **Print** in the Print dialogue box to start printing.

Caution

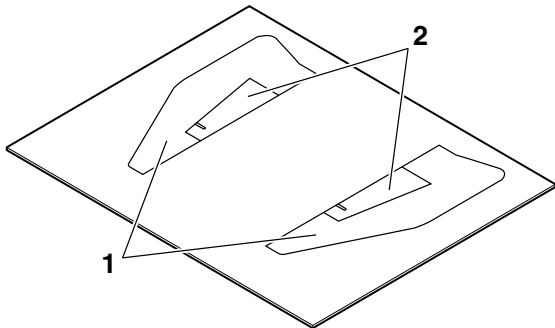
When Automatic is selected, opaque white printing is only applied to the picture data area, it is not applied to the text area.

If you wish to apply opaque white printing to the text area, you will need to set the printing area in Manual Preview.

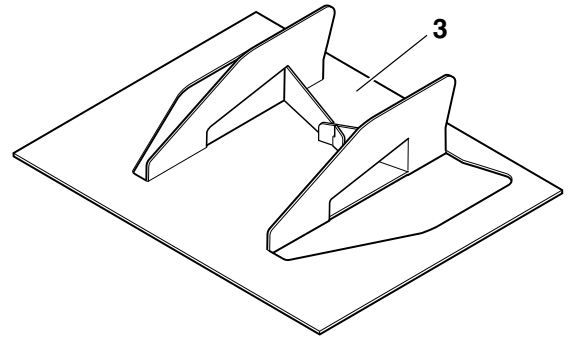
Setting up the film support

Occasionally electrostatic build-up may cause sheets of transparency film to stick to each other. To prevent this happening, assemble the film support and install it in the output paper tray. To set up the film support:

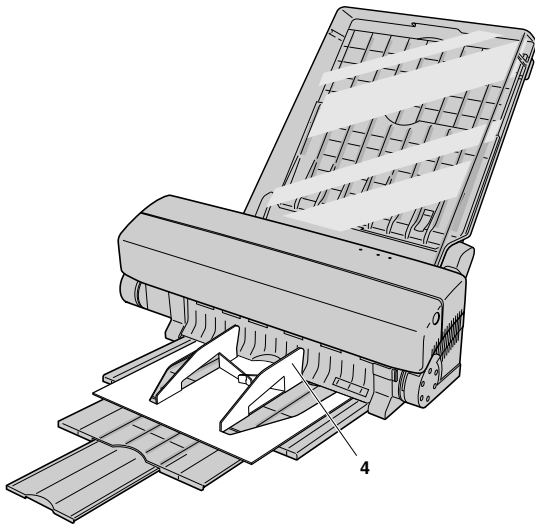
1. Push up the Supporting parts (1) from the basecard.
2. Fold out the joint parts (2).



3. Attach together as shown (3).



4. Place the film support (4) on the output paper tray so that it supports transparencies that are fed out from the paper output slot.



5. When the transparencies are printing they will ride over the top of the support, preventing them from sticking to any completed transparencies lying below.

RGB Printing

RGB printing ink cartridges are for two-colour printing. It is possible to check a print such as a flyer in 2 colours.

Note:

You cannot carry out full colour or spot colour printing, but only monochrome or multicolour printing.

Requirements

For RGB Printing, you will need the following.

1. Media
Press Paper or High Grade Paper.
2. Ink cartridges
Red Spot ink cartridge
Green Spot ink cartridge
Blue Spot ink cartridge
Black Spot ink cartridge

Prepare the image to be printed

Use any application to create the image or document.
Prepare the image or the document in two colours from

among the three different colours in the RGB ink and Black.

Install ink cartridge

Make sure at least one RGB ink (Red Spot, Green Spot, Blue Spot) cartridge is installed in the ink cartridge holders. The ink cartridge can be installed in any holder.

Load the paper in your printer

Load the paper into your printer and set up the feed mode to either automatic or manual.

Setting up the printer driver for printing

1. In the application you want to print from, select **Page Setup** from the **File** menu to open the **Page Setup** dialogue box.
2. Make any necessary changes to the settings in the **Page Setup** dialogue box
3. Set the **Media** to Press **Paper-Matte/Art, High Grade Paper**, or **Cardboard (Thick Paper)** and the **Size** to match the paper loaded in the printer.

When using a different type or size of paper, change the setup accordingly.

4. Click **OK** to close the **Page Setup** dialogue box.
5. In the Print dialogue box click the **Use Spot Colours** check box.
6. In the **Spot Colours Setting** dialogue box click the Use RGB Colour(s) radio button.
7. Select **Single Ink (No Halftone)**, or **Single Ink (Halftone)**, or **Multiple Inks** from the **Print Using** pop-up menu.
8. After the settings have been completed, click **OK**.
9. In the Print dialogue box click **Print**.
10. In **Select Ink Cartridge(s)** enabled ink cartridges among those installed in the printer are displayed. Click the radio button(s) of the ink cartridge(s) to be used.
11. When the correct ink cartridge is selected, click **OK** to start printing.

Chapter 5 - Maintenance

Cleaning the printer

We recommend that this printer be cleaned periodically to ensure satisfactory long term operation.

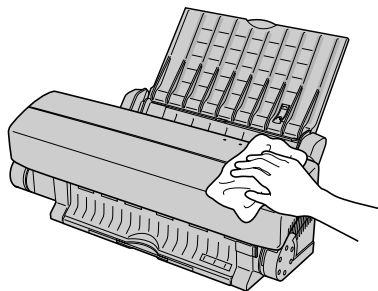
WARNING

Make sure you unplug the printer before cleaning it.

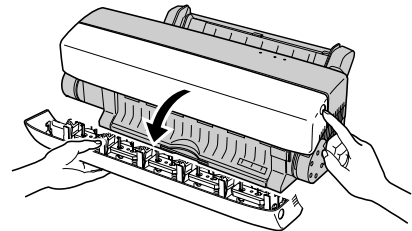
Cleaning the main unit

Follow the cleaning steps described below.

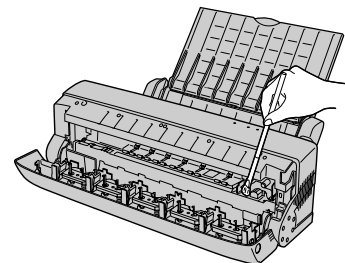
1. Use a soft cloth to wipe the outside of the printer to avoid dust and dirt build-up.



2. Push the front cover release button and gently lower the front cover.



3. Clean the inside of the printer using a soft brush to brush away dirt and dust.



Caution:

Brush very gently around electrical components, and be careful not to leave any brush hairs on or near these components.

Cleaning the print head

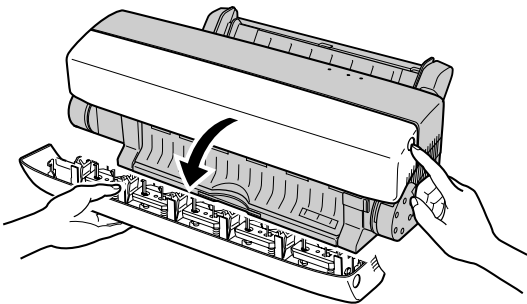
Follow the steps below, using isopropyl alcohol and a cotton swab.

Caution 1:

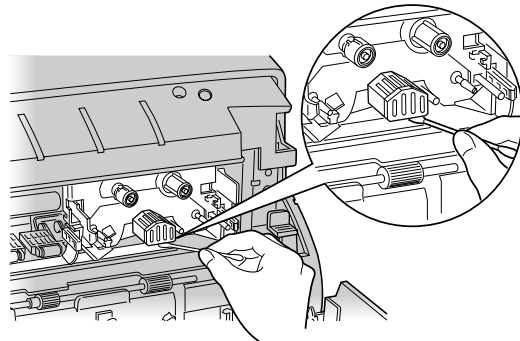
Do not use benzene, thinner, or other volatile materials, as they may damage the printer components.

Caution 2:

Do not get the inside of the printer wet.



1. Push the front cover release button and gently lower the front cover.
2. Wipe the print head (1) with a cotton swab dipped in isopropyl alcohol. The print head may not come clean in one wipe so repeat several times.



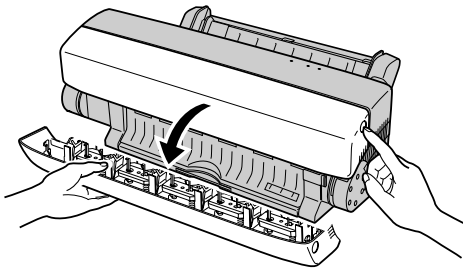
Caution:

Avoid getting alcohol on the platen (2). Wait until the alcohol dries before printing.

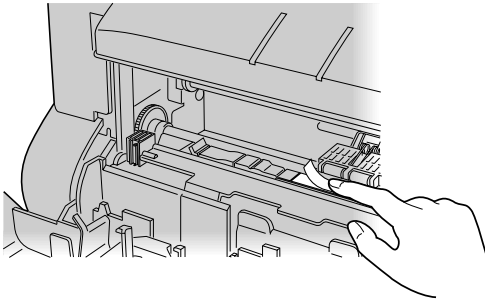
Cleaning the platen

Use cellophane tape to clean the platen as described below.

1. Press the front cover release button and gently lower the front cover.



2. Gently apply the tape (1) to dirty spots on the platen (2), and rub your finger over the tape.



Caution:

Do not touch or remove the white pad (3) on the left side of the platen. Doing so may damage the printer.

3. Slowly peel off the tape.
4. Repeat as necessary to remove dirt from the platen.

Cleaning the feed roller

Use isopropyl alcohol and a cotton swab to clean the feed roller as described below.

Caution 1:

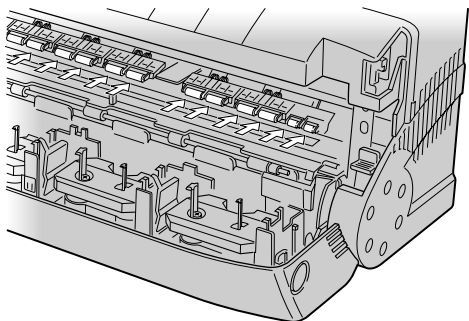
Do not use benzene, thinner, or other volatile materials, as they may damage the printer components.

Caution 2:

Do not get the inside of the printer wet.

1. The printer must be initialised for cleaning the feed roller. To initialise turn off the printer first, then press the **power** button to turn the printer on again.
2. Push the front cover eject button and gently lower the front cover.
3. Press the **ready/insert** button to move the carriage to a safe position.

4. Wipe the feed roller (metal shaft roller) with a cotton swab dipped in isopropyl alcohol. The feed roller may not come clean in one wipe, so repeat several times.



Caution:

Avoid getting alcohol on the platen. Wait until the alcohol dries before printing.

5. Press the **ready/insert** button to turn the feed roller and wipe the roller with a cotton swab until clean.
6. Close the front cover after you have finished cleaning the feed roller.
7. The printer will be ready for printing.

Cleaning the paper transport rollers

When the printer has been used for a lengthy period, paper may start to feed incorrectly due to dust on the paper transport rollers. If incorrect feeding occurs, clean the paper transport rollers with water and a cotton swab as follows:

Caution:

Do not use benzene, thinner, or any other volatile materials, as they may damage the printer components.

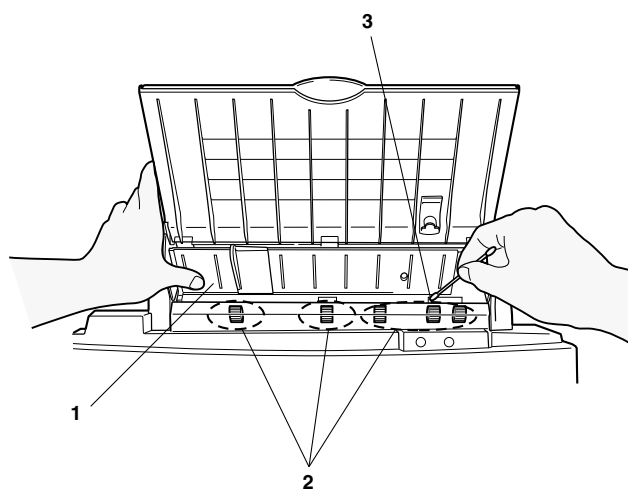
Do not get the inside of the printer wet.

1. Turn off the printer.
When cleaning the feed rollers, turn off the printer to initialize.
2. Remove any paper in the sheet feeder.
If there is paper on the sheet feeder, please remove it.
3. Set the printer to the initial mode.
Turn on printer power and check that the power lamp and ready lamp light up.
4. Open the front cover.
Press the front cover release button and lower the front cover gently. The error lamp will blink.

5. Set the printer to the cleaning mode.
Press the ready/insert button to move the carriage to the left.

WARNING:

Do not put your hands inside the printer when printer parts are moving.



6. Press the plate (1) to wipe the 5 paper transport rollers (2) with a moist cotton swab, using a left right motion along the gutter (3).

7. Press and release the ready/insert button to partially rotate the feed rollers. Continue cleaning in this way until the feed rollers are completely clean.

Caution:

Never press the ready/insert button when putting a cotton swab or your hand inside the printer. Doing so may result in an injury and malfunction as the cotton swab or your hand may be pulled inside the sheet feeder.

8. Close the front cover.

Chapter 6 - Troubleshooting

Troubleshooting - general

Printer errors

When a printer error occurs, the error light flashes and the error message dialogue box appears on your computer's screen. To rectify printer errors;

1. Check the error message on your computer's screen. For a list of Error messages see Indicator Lights Summary in Chapter 1 - Introduction.

Caution:

The error message dialogue box cannot be displayed if your computer is not capable of bi-directional printing.

2. Fix the error to continue printing, or terminate printing. For more information on fixing printer errors see the rest of this Chapter.

Ready/insert button functions

The **ready/insert** button is used for a number of functions, depending on the printer status. The functions during normal printing are described below.

Paper feed

To feed a single sheet, set the paper feed switch to position "M" while no data is being received from the computer (i.e. **ready** light is on), load one sheet of paper into the sheet feeder, and then press the **ready/insert** button.

Paper eject

If paper is already in the printer and no data is being received (**ready** light is on), press the **ready/insert** button to eject the paper.

Cancelling an alarm

To cancel an alarm for anything other than a hardware or mechanism error, press the **ready/insert** button after the removing the cause of the alarm.

Forced printing and clearing data

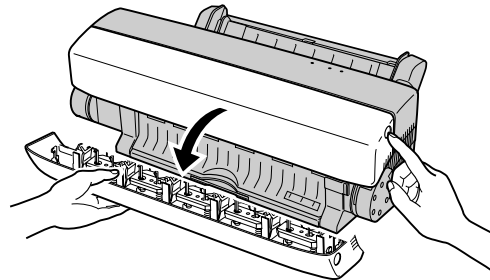
When the data transfer from the computer stops for more than about 30 seconds, and the **ready** light is blinking quickly, press the **ready/insert** button to force the printer to print the data it has received so far.

Clearing paper jams

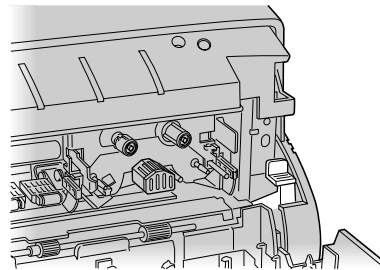
Follow these steps to clear a paper jam.

1. First, press the **power** button to shut off the power.

2. Press the front cover release button and gently open the front cover.



3. Press down on the release lever (1) and gently pull out the jammed paper.



Paper jams can be caused by a dirty platen. For information on cleaning see 'Cleaning the Platen' in Chapter 5 - Maintaining the Printer.

4. Close the front cover.
5. Press the **power** button to turn on the power.

Troubleshooting - Macintosh

When problems occur during printer operation, please check the following troubleshooting tips before returning the printer for repair.

Power does not come on

1 Is the power cord disconnected?

Make sure the power cord is plugged into an outlet as well as connected to the printer. After checking the power cable, push the **power** button to turn on the printer.

2 Is the printer plugged into an extension block or power strip?

After turning on the extension block or power strip, press the **power** button on the printer.

During installation a "File not found" error occurs or the installer is not found

1 Is At Ease installed?

If you are using **At Ease** when you place the Installation Disc in the CD-ROM drive, (some of the Performa series start up in **At Ease**), the following things may happen.

- a The alert dialogue box appears.
- b The installer is not displayed.

In these cases the following methods can be used to install the printer driver:

- a From the **Special** menu, select **Switch To Finder**. Double-click on the **installer** icon to install the printer driver.
- b If the **Switch To Finder** function is not available on the **Special** menu, select **Switch To At Ease** and check the **Off** checkbox in **At Ease** settings. Restart your computer and install the printer driver.

The icon does not appear in the Chooser

1 Is QuickDraw GX enabled?

If **QuickDraw GX** is installed, disable it by following these steps:

- a Select "Control Panel" from the Apple menu.
- b Open the **Extensions Manager**.

- c Deselect **QuickDraw GX** in the list of items.
- d Close the **Extensions Manager**, and restart your Macintosh.

2 Is the printer driver installed?

Install the DP-7000 printer driver from the Installation Disc (CD-ROM).

The DP-7000 printer cannot be selected in Chooser

1 Are the SCSI cable and terminator correctly connected?

Correctly connect the SCSI cable and terminator. Make sure that the cable is not bent excessively. Excessive bending of the cable may break the wires inside.

2 Is the SCSI cable loose?

Make sure the SCSI cable connectors are firmly attached at both ends using the fastening screws or clasps.

3 Is the SCSI device number set correctly?

Make sure the SCSI device number for the printer is not the same as that used by any other SCSI device attached to the computer. Each SCSI

device must have a unique device number. (If the computer has more than one SCSI bus, then the device number must only be unique for the bus that the printer is attached to.)

4 Are you using a high impedance cable?

Use a high impedance cable for each device in the SCSI chain.

5 Is the cable too long?

Do not use a cable that is longer than you need. The signals become more unstable as the cable gets longer.

6 Is the printer turned on?

Make sure the printer is turned on before using the **Chooser** to select the printer.

7 Were the printer and computer turned on in the wrong order?

Turn the printer on before turning on the computer.

8 Is the front cover closed correctly?

Make sure that the front cover is closed correctly.

9 Is the ready light off?

Press the **ready/insert** button and make sure that the **ready** light comes on.

10 Are you using the wrong cartridges?

Use only OKI recommended cartridges in the DP-7000 printer. Do not use cartridges from other manufacturers.

11 Are the cartridges installed correctly?

Insert the cartridges in the holders with the identification markings (B side) face up.

12 Is the ribbon in one of the cartridges used up?

When the ribbon in a cartridge has been used up, black and silver stripes will be visible on the ribbon. Install a new cartridge. After replacing the cartridge printing will continue from where it left off.

13 Is the SCSI cable correctly connected?

Make sure the cable is not bent excessively, and secure it firmly at both ends with the fastening screws or clasps.

14 Is the device number set correctly?

Make sure the SCSI device number of the printer is not the same as that used by any other SCSI device attached to the computer. Each SCSI device must have a unique device number. (If the computer has more than one SCSI bus, then the device number must only be unique for the bus that the printer is attached to.)

15 Is the terminator connected?

Make sure there is a terminator connected to the last peripheral in the SCSI chain. If you are using a device with an internal terminator, make it the last peripheral in the SCSI chain.

16 Is the USB cable is connected correctly?

Connect the USB cable correctly.

17 Is there a paper jam?

Remove the paper. If the paper is caught in the rollers, open the front cover, push down on the release lever, and gently remove the paper. Make sure there are no pieces of paper left in the printer.

18 Are the settings in the application correct?

Recheck the printer settings in the application.

19 Is the printer driver correctly installed?

Install the DP-7000 printer driver from the Installation Disc (CD-ROM).

20 Has the printer been selected using the Chooser?

From the **Apple** menu, select the **Chooser** and make sure the printer and device number appear correctly. Click on the printer name and SCSI#. (The printer may not be selected correctly if you do not click on the printer name.)

21 Do you have enough hard drive space?

The DP-7000 requires work space on the hard disk when it prints. Keep enough space open on the disk for the printer to operate. (After printing, the work space is released.)

22 Does the hard disk have areas where reading or writing are unreliable?

If there are areas on the hard disk where reading or writing are unreliable, sometimes a printing error will occur and printing will stop. Periodically use the **Disk First Aid** utility that comes with your system software (or other commercial disk checking utility) to prevent these problems.

Colour printing is not working or is extremely slow

1 Are the ink cartridges for colour printing installed?

The following ink cartridges are required for colour printing:

- a Yellow, cyan, magenta, and black ink cartridges
- b Yellow, cyan, magenta, black and Finish II ink cartridges

2 Are the print settings correct?

In the Print dialogue box, select **Automatic**, **Photographs** or **Graphics & Text** from the **Type** menu.

3 Is the free space on the hard disk fragmented?

The time required for printing can increase dramatically if the free space on the disk is extremely fragmented. Clean up your files and defragment the disk by periodically using a defragment utility.

4 Is enough memory allocated?

Colour printing may not be possible if the memory allocated to the application is insufficient. Allocate more memory to the application.

5 Are you using memory management tools or virtual memory?

When you are using memory management tools such as RAM Doubler or virtual memory, memory may not be correctly recognised for colour printing.

If colour printing is not working, try disabling these utilities and try again.

6 Do you have enough disk space?

Make sure there is enough empty space on your hard disk. (The working space is released once printing is finished.)

When there is just barely enough working space left on the disk, printing may take much longer than normal.

7 Is the application set for colour printing? Does the application support colour printing?

Some applications have colour printing enable/disable settings. Some applications do not

support colour printing. Read the manual for the application and check the colour settings.

8 Are you using many applications at one time?

When very little memory is available for print processing, printing may take a long time or fail. Close as many applications as possible and try again.

Printing is light, distorted, or has gaps

1 Has one of the ribbons separated from the head?

Stop the printing and reinstall all the cartridges. Take up any slack in the ribbons. If a particular cartridge repeatedly causes problems, try a different cartridge.

2 Is the head dirty or is there an obstruction on the print head?

Clean the head by following the directions in Chapter 5. If anything is stuck to the print head, remove it, being careful not to damage the head. The platen often gets dirty at the same time as the head, so it is recommended that you clean the platen after cleaning the head.

3 Is the platen dirty or is there an obstruction on the platen?

Clean the platen by following the directions in Chapter 5. If anything is stuck to the platen, remove it, being careful not to damage the platen.

If cleaning the head and the platen does not work, contact the supplier from where you purchased the printer.

4 Are you using the correct cartridges for the chosen printing media?

Use only OKI cartridges for the DP-7000 printer. When printing transparencies, use only recommended Transparency Film and Transfer Film (A3+).

5 Are you printing on envelopes, thermal paper, or picture postcards?

Printing is unreliable on envelopes and other surfaces which have a non-uniform thickness. Printing and feeding of thermal paper is unreliable. The back side of picture postcards may be printed on if the surface is smooth and the card thickness is 0.23 mm (0.01") or less, but printing on the photo side is unreliable.

6 Are you printing in colour on the glossy side of a greeting card?

The glossy side of a greeting card can only be printed on using metallic cartridges.

7 Are you printing on the wrong side of the paper?

With VPhoto Film, printing should take place on the glossy side. The ribbons in the cartridges may break.

Paper is not feeding or ejecting correctly from the sheet feeder

1 Are you using paper which is thicker or thinner than recommended?

Use paper within the range 0.07 mm - 0.23 mm (0.003" - 0.01"). For auto feeding use paper in the range 0.07 mm - 0.1 mm (0.003" - 0.004").

2 Are you using poor quality paper?

Paper that is folded, ripped or has holes, such as loose leaf binder or refill paper, can cause paper jams and should not be used.

3 Are you using curled paper?

This will cause paper jams. The paper should be curled the opposite way to flatten it out before it is used.

4 Are you using paper with folded or cut corners?

This can cause problems since the paper position sensor and paper length sensor do not work properly. Sheets with corner cuts, such as transparencies and back print film, will work fine if the corner cut end is placed at the top of the paper guide.

5 Is the cut corner in the correct position?

When these sheets are inserted with the cut corner incorrectly positioned, they may not feed correctly.

6 Is the paper feed guide too narrow for the paper?

The paper feed guide should hold the paper loosely enough so that it can feed easily.

7 Is there too much paper in the sheet feeder?

The sheet feeder can hold up to 100 sheets of High Grade Paper, or 30 transparencies, any more than this may cause a paper jam.

8 Is the paper feed switch positioned correctly for the paper feed method?

To print on High Grade Paper using automatic feed mode, set the paper feed switch to position

“A”; to print in manual feed mode, set it to position “M”.

9 Are you printing on envelopes, thermal paper, or picture postcards?

Correct printing and feeding of envelopes and thermal paper cannot be guaranteed. The back side of picture postcards can be used if the card is less than 0.23 mm (0.01") thick and manual feed mode is used. Printing on the photo side is unreliable.

10 Are you using home-made cards or thick cards?

Cards with thickness within the range of 0.07 mm - 0.23 mm (0.003" - 0.01") can be used in manual feed mode.

11 Are there pages piled up near the output slot or in the output paper tray?

When printed material obstructs the paper output slot, the paper feed and paper output may not work correctly.

12 Have you loosened the paper sufficiently prior to loading it into the sheet feeder?

Paper must be riffled several times prior to being loaded into the sheet feeder. If not, sheets of paper may stick to one another and cause

multiple sheets to feed into the printer at the same time, or other forms of misfeed.

The printer emits unusual noises when the power is turned on, and the error lights blink

1 Has the carriage packing material been removed?

Refer to Chapter 1, Introduction for details on removing packing material.

2 Has the packing tape been removed?

There are two pieces of tape on the front of the printer that help protect the printer during shipping. Gently remove the tape before using the printer.

3 Has a cartridge become dislodged from the cartridge holder?

Open the front cover and make sure the cartridges are correctly installed.

4 Is there a paper jam?

Clear a paper jam by referring to 'Clearing Paper Jams' in this Chapter. Occasionally a small piece of paper will tear off and remain in the printer. If this happens, hold the release lever down and use

a thick piece of paper to remove the small piece of paper.

A mechanism or cartridge change error occurred

1 Are the cartridges installed correctly?

If a cartridge has become dislodged from its holder, a cartridge change error will occur. Open the front cover and reinstall the cartridge.

2 Are you using the printer on a level surface?

The printer will not operate correctly on a slanted surface. Place it on a level, stable surface.

3 Is the printer in a place where it is subject to movement?

Various movements such as bumps and vibrations can cause mechanical problems. Place the printer in an environment where it will not be subject to movement.

4 Is the front cover properly closed?

The printer will not operate correctly if the front cover is not closed properly. Close the front cover all the way.

5 Are items stacked on top of the printer?

The printer may malfunction if items are stacked on top or to the side of the printer. Remove any obstruction on top or to the side of the printer.

6 Is there an obstruction in front of the paper output slot?

If the paper output slot is obstructed, paper ejected from the printer can fold or bend and cause the printer to malfunction. When printing, make sure that the paper output slot is unobstructed and that there is room for paper to be ejected.

Ink cartridges are not correctly recognised**1 Is the bar code on the cartridge dirty?**

Clean the bar code.

2 Is the cartridge installed in the holder with the (A) side up?

Make sure the cartridges are placed in the holder with the identification markings (B side) facing up.

3 Has an ink cartridge for a different printer been installed?

Cartridges made by other manufacturers will not work. Use only OKI recommended cartridges.

Printing quality, hue, and resolution queries**1 Can all four colours of the colour inks be combined for black and white printing?**

If **Darker Black** is set in colour printing or if the brightness and contrast settings are correct, 4-colour black is possible. To print only with black, turn off **Darker Black**, and return the **Image** setting under Image Settings to default.

For monochrome printing, select **Greyscale** under **Document Type**.

2 Black is printed with black ink, but grey portions are printed using four colours.

In colour printing, greyscale intermediate colours (such as grey) are printed using four colours. If you want to print only in black ink, set the Type setting in the Print dialogue box to **Greyscale**.

3 When coloured paper is used for full colour printing, the colours are not reproduced correctly.

Colour printing is based upon the ink being printed on a white background, so correct colours cannot be reproduced on coloured paper.

Ink and paper

1 How should I use opaque white ink?

Opaque white ink can be used as follows:

Opaque white ink can be used for white base printing. It is possible to do a white base print which is necessary for the dummy design for film packaging.

2 Is it OK to print using the opaque white ink on top of a full colour image?

Print with Opaque white ink for full-colour printing.

3 For full colour printing and glossy finishing, may I use any type of paper?

We suggest using High Grade Paper, Press Paper or VPhoto Film for full colour printing. Using other types of paper can produce a poor image.

Connection method

1 Can I connect multiple DP printers to a single computer?

If different SCSI device numbers are used, multiple printers can be connected to a single Macintosh. Of course, simultaneous printing is not possible.

2 Can I connect a single DP printer to multiple computers?

No, the printer is not designed for this.

Other operational problems

1 Is this printer compatible with PostScript?

The DP-7000 printer uses QuickDraw. It is not compatible with PostScript.

However, it is possible to use DP-7000 printer for PostScript printing by using the DP-7000 RIP (software RIP).

2 EPS files cannot be output clearly.

Since EPS files are data files for PostScript printers, images at 72 dpi may be output from QuickDraw depending on the application.

3 Are enlargements and reductions possible?

Set either the enlargement or the reduction rate in the **Reduce or Enlarge** setting in the **Page Setup** dialogue box. This value may be specified between 25 and 400.

4 The preview doesn't change even though I change the reduction or enlargement in the Page Setup dialogue box.

The preview will not change size with different reduction or enlargement settings. Check the size after printing to see that the changes took effect.

5 How do I uninstall the printer driver?

Remove the DP-7000 printer driver from the **Extensions** folder in the **System Folder**, and remove the **DP-7000 Preferences** file from the **Preferences** folder.

6 Why can I not print correctly with page layout settings?

There are application programs that allow you to format a document correspond of both orientations of portrait and landscape. When printing such document with layout (more than 2 pages per sheet), it may not print properly.

Troubleshooting for USB

The USB printer cannot be selected in the Chooser

Please check the following:

1. Make sure that the USB interface cable is properly connected to the printer and computer, and the printer is turned on. Then restart your computer.
2. Make sure that you have installed the iMac Update 1.0, if your iMac was running Mac OS 8.1.

Chapter 7 - Specifications & Settings

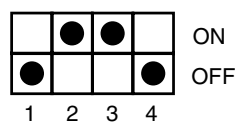
The table below details the general specifications for the OKI DP-7000 printer.

Name	OKI DP-7000 Photo Quality Colour Printer	
Print head	240 dot	
Printing speed	High Grade Paper: Equivalent to 235 cps (When printing 10-cpi text)	
Resolution	Photo-Quality:	2400 dpi colour and greyscale
	Standard:	1200 dpi greyscale / black & white; 600 dpi colour / black & white / greyscale
Printing area	330mm x 681mm (13" x 27") maximum	
Paper feed method	Friction feed	
Paper width	98mm - 330mm (3.9" - 13.0")	
Paper length	98mm - 681mm (3.9" - 26.8")	
Paper thickness	0.07mm - 0.23mm (0.003" - 0.01")	
Print media	Photo-Quality:	VPhoto film and Press paper (2400 dpi)
	Standard:	High Grade Paper transparencies, (600 dpi)
Dimensions	56.8cm (width) x 27.5cm (depth) x 20cm (height) 22.4" x 10.8" x 7.9" (approximate dimensions)	
Weight	9.5 kg (20lbs. 15 oz.)	

Name	OKI DP-7000 Photo Quality Colour Printer	
Power supply	220-240 Vac 50/60Hz	
Interface	Parallel, SCSI (optional), USB	
Head life	250 million pulses/dots	
Machine life	printing; 10,000 cycles	
Noise	51 dB Maximum	
Agency approvals	FCC Class B, UL, CSA and CE	
Operating environment	Temperature:	15°C to 30°C. (59° to 86°F).
	Humidity:	30% to 70% (without condensation or freezing)
Storage environment	Temperature:	0°C to 35°C (32° to 95°)
	Humidity:	50% to 70% (without condensation or freezing)

DIP switches

DIP switches are used to set the SCSI ID number.



The following summarises the settings for each SCSI device number.

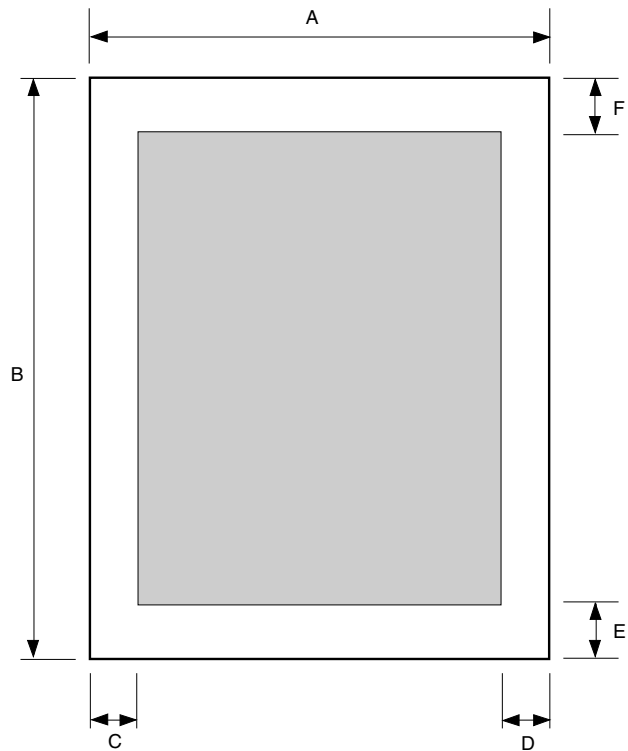
1	2	3	4	SCSI No.	
OFF	OFF	OFF	OFF	No. 0	(note 2)
ON	OFF	OFF	OFF	No. 1	
OFF	ON	OFF	OFF	No. 2	
ON	ON	OFF	OFF	No. 3	(note 1)
OFF	OFF	ON	OFF	No. 4	
ON	OFF	ON	OFF	No. 5	
OFF	ON	ON	OFF	No. 6	(note 1)
ON	ON	ON	OFF	No. 7	(note 2)

Note 1:
Factory default setting is No.6.

Note 2:
SCSI device number 7 is reserved for the Macintosh itself. Device number 0 is normally assigned to the internal hard disk drive, if there is one. Device number 3 is normally assigned to the internal hard disk drive,

if there is one.
Please refer to the user manual that came with your Macintosh to find an empty and usable SCSI device number.

Printable area



	A	B	C	D	E	F
A4	210mm (8.5")	297mm (11")	3.5mm (0.134")	3.5mm (0.134")	15.2mm (0.6"min)	12mm (0.47"min)
A3	297mm (11")	420mm (16.5")	3.5mm (0.134")	3.5mm (0.134")	15.2mm (0.6"min)	12mm (0.47"min)
A3+	329.2mm (13")	483mm ^{*1} (19")	3.5mm (0.134")	3.5mm (0.134")	15.2mm (0.6"min)	12mm (0.47"min)

*1 475mm (18.7") in the case of transparent film.

Using cardboard or thick paper

Print within the recommended range shown below.
Depending on the printing media, printing outside the recommended area may cause malfunctions such as the ink cartridge ribbon getting caught and breaking.

C	D	E	F
12mm (0.47")	12mm (0.47")	15.2mm (0.6"min)	12mm (0.47")

Available supplies

Ink cartridges

Ink Cartridges	Part Number
Process Cyan	41644607
Process Magenta	41644608
Process Yellow	41644609
Process Black	41644606
Black Spot	41644605
Blue Spot	41644604
Red Spot	41644602
Green Spot	41644603
Gold Foil	41067608
Silver Foil	41067609
Metallic Gold	41067615
Metallic Silver	41067616
Metallic Cyan	41067618
Metallic Magenta	41067617
Finish II	41067607
Opaque White	41644601

Print media

Print media	Part Number
Press Paper – Matte	41644404
Press Paper – Art	41644405
High Grade Paper	41644407
VPhoto Film	41644403
Transparency Film	41644401
Transfer Film	41644412

Appendix A

SCSI Interface module

The OKI Interface module enables the OKI DP-7000 and Macintosh to be connected by using SCSI cable.

Important Note 1:

DO NOT unplug the SCSI interface cable while printing. If you do so you must restart your computer before re-commencing printing.

Important Note 2:

The OKI SCSI interface module works with the designated OKI DP-7000 printer.

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